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GUIDE TO UTILITY STATIONS

edition 9

including

GUIDE TO RADIOTELETYPE STATIONS

edition 17

Cross reference

- Latest monitoring results are published in the **SUPPLEMENT SERVICE** to this manual.
- The decoding of meteorological bulletins such as METAR, SHIP, SYNOP etc., the WMO GTS message format used by meteorological stations, as well as the NOTAM/SNOWTAM codes and the AFTN message format used by aeronautical fixed stations, are explained in our **AIR AND METEO CODE MANUAL.**
- The FAX technique used by terrestrial stations and meteorological satellites is explained in our **GUIDE TO FACSIMILE STATIONS.**
- This reference book includes many RTTY station using Arabic, ATU-80 Arabic, Cyrillic and third-shift Cyrillic teleprinter alphabets, stations using F7B and VFT modulation, and stations using ARQ-E, ARQ-E3, ARQ-M, AUTOSPEC, FEC-A, SI-ARQ and SITOR synchronous systems. Detailed information on these alphabets and techniques, amongst many others, is included in our **RADIOTELETYPE CODE MANUAL.**
- Examples on various types of emissions are filed on the **COMPACT CASSETTE RECORDING OF MODULATION TYPES.**
- Frequencies and call signs of utility stations formerly in use are listed in our **GUIDE TO FORMER UTILITY TRANSMISSIONS.**

ISBN 3-924509-91-3

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Cover photograph - Satellite antenna of OTS (Overseas Telecommunications Services, see page 455) at Pointe Venus, a small hill overlooking the beautiful bay of Port Mathurin, the "capital city" of Rodrigues, one of the outer islands of Mauritius. INTELSAT 5 is located in a geostationary orbit high above the Seychelles in the Indian Ocean on orbital position 63E00. A typical uplink frequency is 6.050 GHz with a 72M0G1W emission, the corresponding downlink being on 4.135 GHz. This picture was taken during our 1989 monitoring mission in Mauritius, Reunion and Rodrigues.

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1 General

During the past two decades, the role of shortwave communication has completely changed. Ever so often, satellite communication or wire networks are either too expensive or simply not available. In that case, state-of-the-art SW circuits are used by major radio services worldwide. Skilled radio operators are no longer needed where a predetermined frequency pool data bank covers the complete HF spectrum, and ionospheric chirp sounders combined with automatic link set-up systems select the optimal channel in milliseconds.

An advanced generation of general coverage receivers such as the JRC NRD525, KENWOOD R5000 etc. is now available. Combined with sophisticated facsimile and teleprinter decoders such as the UNIVERSAL M7000, WAVECOM W4010 etc., quasi-professional monitoring of utility stations is now accessible to everyone.

This revolutionary development has been supported by our famous lists and manuals since 1971. Being ourselves the top address for the world's top radio monitors since then, the correspondence with our worldwide reading public ensures the manual in hand to continue to be the standard reference of both professional monitoring services and non-professional radio monitors. Its contents are built exclusively on continuous monitoring of the radio spectrum during 1990. The global coverage of our data bank is secured by regular overseas monitoring missions. After extremely successful operations during the eighties in the Azores, Brunei, Dominica, Guadeloupe, Indonesia, Madagascar, Malaysia, Martinique, Mauritius, Reunion, Rodrigues, Sabah, Sarawak, Singapore, Somalia, and Yemen, we now in 1990 spent more than three months in Guatemala, Malaysia, Singapore and Venezuela. The results are included in this book, and similar activities from even more exotic sites are scheduled for 1991.

This book has been compiled with the help of a computer controlled data bank and word processor system - the only reasonable way to handle this amount of information. In addition, it guarantees the shortest time imaginable for the production of this reference book. Contrary to imitative publications, the time between filing the last entry into the data bank system and the mailing of the completed book takes only 10 (ten) days here.

Spurious signals have been proven to exist with at least three commercial receivers of full different circuitry.

In case of doubt, the spelling of place-names follows that used in the TIMES ATLAS OF THE WORLD (see the introduction to chapter 24), in the TIMES ATLAS AND ENCYCLOPAEDIA OF THE SEA, and in the CENTRAL INTELLIGENCE AGENCY POLAR REGIONS ATLAS.

The mention of specific companies or products in articles or advertisements does not imply that they are endorsed or recommended by Klingenfuss Publications in preference to others of a similar nature which are not mentioned or advertised.

Although the more progressive national telecommunication authorities have now released the reception of meteorological etc. data for the purpose of technical investigation, readers are reminded that the divulgence of the contents of radio transmissions which are not intended for the general use of the public is a violation of international and most national telecommunication acts. ☺

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2 Monitoring utility stations

2.1 Introduction

The shortwave (SW) range covers 3 to 30 MHz and is allocated to various services. The current allocations were decided basically at the World Administrative Radio Conference (WARC) 1979 and modified by e.g. the World Administrative Radio Conference for the Mobile Services (MOB) 1987. Considering the present situation, the exclusive allocations to the amateur service cover about 2.80 MHz or 10.3 %, and to the broadcasting service about 3.13 MHz or 11.6 %. Consequently, more than 78 % of the entire SW spectrum remain for the utility services. Although many countries and stations violate against this internationally agreed distribution, by far the greatest part of the SW range is actually covered - and will continue to be covered - by utility stations. These belong to various services, such as the aeronautical, fixed, maritime, mobile, radionavigation, standard frequency service, etc. Several types of stations operate within these services, e.g. diplomatic, meteorological, military, police, point-to-point, press stations, and so on. They use various types of modulation, including radiotelephony (ISB, SSB), radiotelegraphy (Morse, CW), radioteletype (RTTY), facsimile (FAX), etc.

Many of these stations can be received and demodulated with suitable equipment. General coverage receivers with digital frequency readout and good high frequency (HF) characteristics greatly facilitate the monitoring of utility stations and are nowadays available for less than DEM 1500. Additional equipment such as microcomputers, CW and RTTY video display converters or FAX decoders permit quasi-professional reception of modulation types which we had never dreamed of.

Technically, everybody equipped with RTTY gear is nowadays able to print press agencies, telex services, weather messages, diplomatic traffic, etc. He only needs the suitable "software" from which he can learn about frequencies, call signs, codes, schedules, and so on. By means of a FAX decoder he could record weather forecast charts, or satellite pictures relayed on SW. If he is able to read CW signals, he can copy the maritime traffic between coastal and ship stations, or between military stations, etc. This type of listening, in course of time, will become far more fascinating than monitoring amateur or broadcast stations.

2.2 Legal restrictions

The reception of utility stations is not allowed by several national telecommunication administrations (NTAs). The reason is the respectable attempt to protect information transmitted via radio against unwanted interception.

This delicate subject must be reflected from the view of all parties involved and not only from your point of view, whoever you are or whatever you represent. There will always exist different opinions between telecommunication administrations, SW listeners, radio amateurs, and the unsuspecting telex subscriber or cellular phone user. The facts are:

- A lot of official publications and inofficial information about utility stations is freely available on the market, either directly from national and international authorities such as the Federal Communications Commission (FCC, in USA), International Telecommunication Union (ITU), World Meteorological Organization (WMO), etc., or from more or less qualified hobby authors.
- With receiving equipment readily available in most countries of the world, you could monitor transmissions from such stations which are not intended for the general use of the public.
- The monitoring of such transmissions could be illegal in your country.

Thus, in order to avoid problems, we advise you to keep the contents of such accidentally monitored transmissions strictly confidential and not, repeat **NOT**, to make any use of it whatsoever.

Remember that you would expect the same from the unwanted interceptor of your personal phone call or business telex message ...

2.3 Official publications

A list of publications is available from the ITU; General Secretariat; Sales Service; Place des Nations; CH-1211 GENEVA 20; Switzerland. Items of general interest to radio monitors are

- Handbook for Monitoring Stations, price around CHF 148. Comprehensive and interesting description of the methods and procedures of NTA monitoring stations, ranging from the siting of such stations over equipment and personnel to measurements. Needless to say, there is a considerable difference in the methods - and lightyears of difference in the available technology - to the monitoring executed by e.g. the Government Communication Headquarters (GCHQ, G), the Komitet Gossudarstwennoy Besopasnostij (KGB, URS), the National Security Agency (NSA, USA), and similar organisations operating on a global basis with a worldwide net of stations and own satellite systems. Consequently, certain chapters (e.g. that about "Types of emissions encountered in the HF band") are amusing reading for those who know what's really going on there ...

- Radio Regulations (RRs), price around CHF 197. Three ring binders contain the results of WARC 1979, MOB 1987 and several specialized conferences. The book in hand includes those RRs which are of importance to SW radio.

- International Frequency List (IFL). The installation of the microfiche edition which covers 70000 pages costs around DEM 4000. The new October 1990 IFL published on two compact disk read-only memories (CD-ROMs) costs around CHF 442. It covers more than 1000000 radio frequencies with more than 5000000 entries and can be retrieved with standard drives according to ISO 9660.

  The IFL contains data reported by NTAs to the International Frequency Registration Board (IFRB). Consequently, the quality of the IFL depends on the quality of the NTA data. Main drawbacks of this procedure are
  - NTAs report to the IFRB usually on an extremely irregular basis. This goes for virtually all countries of the world, from the most "underdeveloped" ones over the would-be "major" countries to the self-appointed former "superpowers".
  - NTAs normally cannot report information about company, diplomatic, military or private stations. This is because they do not allocate these frequencies themselves, and they do not get any lists from e.g. the Ministry of Defense (MOD). Consequently, you will not find the frequencies of the drilling rigs in the North Sea or off Seria in Brunei, or those of the British High Commission at Port Louis in Mauritius, or those of the French Forces (FF) at N'djamena in Chad, in the IFL.
  - NTAs notoriously do not cancel information on circuits which are no longer in use - the typical example of an inefficient bureaucrazy. Tenthousands of entries have been filed in the twenties or thirties and have been out of service for decades. Drastic examples of a few of these historic oldies, taken from the September 1990 IFL edition 12.5, include: date of bringing into use of the frequency - 1925 (i.e. 66 years ago!): 20075.0 kHz Washington, USA, CW circuit to Balboa, ex-colony PNR; 1933: 14200.0 kHz (in a frequency band allocated exclusively to the amateur and amateur-satellite services) Vladivostok, URS, interior CW/SSB circuit; 1935: 6770.0 kHz Kootwijk, NLD, CW/RTTY circuit to Lisbon, POR; 1946: 10635.0 kHz French Navy (FN) at ex-Saigon, ex-colony VTN, CW/RTTY circuit to Paris, F; 1953: 15655.0 kHz Reparticao Provincial dos Servicos dos Correios, Telegrafos e Telefonos (CTT) at Dili, ex-colony TMP, CW circuit to ex-colony MOZ; 1955: 6920.0 kHz United States Air Force (USAF) at Wheelus Field, LBY, SSB circuit to Luqa, MLT; 1960: 19742.0 kHz United Nations Organization (UNO) at ex-Leopoldville, ex-colony ZAI, RTTY circuit to UNO Geneva, SUI (operating only during the war of independence, i.e. today 31 years ago!); 1971: 27963.5 kHz MOD Washington, USA, SSB circuit to United States Navy (USN) Cam Ranh Bay, ex-colony VTN.

  If you examine e.g. the frequency range between 20000 and 20500 kHz - quite interesting during the current sunspot maximum -, you will find that
  - IFL edition 12.5 lists 1146 entries;

- less than 10 % of these entries were filed between 1980 and 1989 ending on 04 MAY 1989 (AUS on 20469.0 kHz - see chapter 3.3);
- more than 90 % have been filed before 1980, starting as early as 1925 (USA on 20075.0 kHz, see above).

Considering all the idiocy described in this written showdown above, you must have monitoring experience of at least one decade in order to detect whether an entry in the IFL is up-to-date, complete, correct and possible. Furthermore, the IFL gives the transmitter site and not the complete station name such as the book in hand. Thus, if you cannot interpret "West Wickham" (and who will tell you?), you will never know that entries under this location are INTERPOL London ...

- Alphabetical List of Call Signs of Stations other than Amateur Stations, Experimental Stations and Stations of the Maritime Mobile Service, price around CHF 75. This is a derivate of the IFL described above, giving the call sign, the transmitter site (again, not the name of the station), the class of station and the frequency. From the current edition, you could tear out pages 9 to 26 and 106 to 138 inclusive, i.e. nearly one fifth of the file, as they list tenthousands of obsolete entries from Argentina ... plus those of many other countries, too.

- List of Coast Stations, price around CHF 72. This book is up-to-date, easy to use and helpful, as - contrary to the two publications mentioned above used only by narrow-minded telecommunication specialists such as ourselves - it is used daily around the world on every sea-going ship. You will find complete station schedules and a lot of other useful information.

- List of Radiodetermination and Special Service Stations, price around CHF 63. Contains schedules of coast and fixed stations transmitting meteorological and navigational bulletins, and a lot of other useful information. Quality and circulation are similar to that of the List of Coast Stations mentioned above.

- List of Ship Stations, price around CHF 73. Quality and circulation are similar to that of the List of Coast Stations mentioned above.

A list of publications is available from the WMO; Publications Sales Unit; BP 5; CH-1211 GENEVA 20; Switzerland. Items of interest to radio monitors are

- Weather Reporting, Volume C - Transmissions, price around CHF 152. Four ring-binders contain schedules of meteorological stations transmitting CW, FAX and RTTY bulletins. The data is reported by national meteorological services to the WMO. Consequently - similar to the IFL story described above - many outdated schedules are included. However, the publication is partly useful if you have an interest in meteorology.

Note that these official publications, like the book in hand, are kept up to date by means of a regular Supplement Service.

2.4 Inofficial information

National government departments often publish their own radio station and schedule lists for selected target groups such as mariners or meteorologists. Examples are the Royal Navy (RN) in the United Kingdom, the National Oceanic and Atmospheric Administration (NOAA) in the United States of America, the Deutsches Hydrographisches Institut (DHI) in Germoney, etc. The up-to-dateness and overall quality of such lists varies from totally outdated to useful.

Hobby publishers produce a wide range of selected frequency lists and related material. The quality of such publications depends on numerous factors. These are

- the technical skill of the contributing radio monitors. They must be fully familiar with the traffic procedures of the various radio services monitored. Consequently, they must be young enough to be able to keep abreast with the latest developments in radio technique, but nevertheless have sound experience of the work done at radio stations of the intercepted utility services. This can be obtained only through long periods of practical monitoring work;

- experience of these radio monitors in the identification of radio signals. This is one of the most difficult tasks, partly due to the infrequent transmission of identification signals and partly due to the use of abbreviated, tactical or unofficial call signs. In the case of complex telegraph systems there is difficulty both in the decoding and the identification of such signals;
- the monitoring work itself (provided that any methodical procedures have been established at all);
- the amount of time invested for monitoring;
- the quality of the equipment used;
- the availability of reference material such as those official publications mentioned above, plus the experience to interprete it;
- the question of what the author plagiarizes, because plagiarizing instead of monitoring continues to be the most common practice of producing imitative publications. One of the deplorable effects of this "method" is that stations which ceased operation many years ago continue to be listed in self-appointed "leading" publications (you name it - we're tickled to death ... ☺) and further concoctions of a similar "nature". The result is the unsuspecting reader being totally confused and scanning the bands in vain, searching for Allgemeiner Deutscher Nachrichtendienst (ADN) and Ministry of Foreign Affairs (MFA) Berlin, Agence France Presse (AFP) Fort de France and Manila and New York and Paris, Agencia Noticiosa Saporiti (ANS) and Agencia Efe (EFE) Buenos Aires, Agenzia Nazionale Stampa Associata (ANSA) and Associated Press (AP) and Deutsche Presse-Agentur (DPA) and Information Service of India (INFOIND) and Reuters and United Press International (UPI) New York, Indonesian National News Agency (ANTARA) Jakarta, AP and Reuters London, AP Montevideo, Agence Zairoise des Associations de Presse (AZAP) Bukavu and Kinshasa and Lubumbashi, British Broadcasting Corporation (BBC) London feeder, Ceskoslovenska Tiskova Kancelar (CETEKA) Prague, Direction des Services d'Information et de Presse (DIPLO) Paris, Informaciones de Mexico (INFORMEX) Mexico City, International Islamic News Agency (IINA) Rome, Kuwait News Agency (KUNA) Safat, Lanka Puwath (SLBC) Colombo, London Press Service (LPS), Rome Sport Press (RDS), Voice of America (VoA) Monrovia; Accra and Athens and Baghdad and Belgrade and Bergen and Brasilia and Budapest and Damascus and Helsinki and Maracay and Miami and New York and Norrköping and Paris and San'a and Tehran and Tel Aviv and Tripoli and Vienna Meteo and and and, but ... all this was a long time ago! Compare yourself - and take a guess which publisher is plagiarized above all ...

Several SW listener clubs run a regular utility section in their magazines. For further information check "Clubs for DXers and International Listeners" in the WORLD RADIO TV HANDBOOK. Also check specialized listener and radio magazines for information about utility stations.

2.5 Radio services

For the definition of all radio services please refer to RRs 20 - 57 in chapter 19. The following description of the most important services found on SW does not include the amateur and broadcasting services.

2.5.1 Fixed service

In a frequency band allocated to the fixed service, e.g. 11400 - 11650 kHz, you will find many different types of stations. These include

- Aeronautical fixed stations. Example: Khartoum Air, SDN, call sign STK. They use CW, RTTY and SSB circuits to ensure communication from one airport to another. The major part of the Aeronautical Fixed Service (AFS) is organized as the Aeronautical Fixed Telecommunication Network (AFTN) and handles written messages. See chapters 7 to 14 in our AIR AND METEO CODE MANUAL for detailed explanations of the standardized AFTN message format and the various abbreviations, codes and message types used.
- Beacon stations. Example: Beacon Vladivostok, SE, URS, characteristic signal 'F'. They continuously transmit characteristic signals in CW and are presumably used for radiodetermination purposes.

- Broadcast feeder stations. Example: Radio Free Europe (RFE) Holzkirchen feeder, D. These transmissions feed relay stations abroad with either one program (SSB) or two programs (ISB).
- Diplomatic stations. Example: Ministry of Foreign Affairs (MFA) Belgrade, YUG, fictive call sign 'DFZG'. The MFAs normally transmit traffic to one selected embassy abroad, or collective broadcasts such as press reviews to all embassies e.g. in Africa. Few of these stations use CW or SSB while the majority handles written messages in RTTY. You will be able to read very little of the real amount of the diplomatic traffic present on SW because most radionets use either their own non-standard RTTY system which can be created very easily with modern microprocessor technique, or they use standard RTTY systems where delicate traffic is encrypted in e.g. five-letter groups, or even a combination of both.
- International Committee of the Red Cross (ICRC) stations. Example: ICRC Kampala, UGA, call sign 5XR 88. The ICRC net uses CW, RTTY and SSB, often on frequencies adjacent to the amateur radio bands so that amateur radio equipment can be used in case of a disaster when normal radiocommunication breaks down. The central station is located at Geneva, SUI.
- INTERPOL stations. Example: INTERPOL Rome, I, call sign IUV 81. The INTERPOL net uses CW on circuits in less developed countries, and RTTY with the simplex teleprinting over radio (SITOR) system (see chapter 7 in our RADIOTELETYPE CODE MANUAL), mostly encrypted.
- Meteorological stations. Example: Delhi Meteo, IND, call sign ATE 60. Meteo stations transmit either broadcasts intended for reception in a specified region of the world, or handle point-to-point circuits to selected recipients. Modulation types used are CW, FAX (see chapter 11 for FAX station schedules) and RTTY (see chapter 10 for RTTY station frequencies). Similar to the AFTN mentioned above, the WMO GTS (Global Telecommunication System) handles meteorological messages in a special message format. The meteorological bulletins themselves, i.e. reports, forecasts etc., are encoded in order to ensure rapid distribution and processing by computer systems, common codes being PILOT, SHIP, SYNOP, TEMP. In addition to meteo stations, many aeronautical fixed stations (see above) transmit meteorological bulletins related to international aviation, e.g. code forms AIREP, METAR, TAF. The reception of meteo stations enables you to get the latest weather forecasts or satellite pictures up to several hours ahead of the television weather forecast or even one day ahead of their publication in a newspaper. See chapters 2 to 5 in our AIR AND METEO CODE MANUAL for detailed explanations of the standardized WMO GTS message format and the meteo code forms.
- Military stations. Example: French Forces (FF) Praia, Santiago, CPV, NATO routing indicator 'RFTJFA'. These include air force, army, navy etc. stations. The traffic is in some cases "unclassified", i.e. not protected against unwanted interception, e.g. meteorological broadcasts in the form of FAX charts or RTTY bulletins for naval units. Messages are usually transmitted in a common format - see chapter 22.6 . However, most military traffic cannot be read, similar to that of diplomatic stations mentioned above.
- NTA stations. Example: Post, Telegraph and Telephone Administration Vatican City, CVA, call sign HVD. This is the classical case of point-to-point circuits in the fixed service. Until 1970 - 1971, most overseas telegraph and telephone traffic was transmitted via SW radio circuits which are now, in the satellite age, a dead ball. Modulation types used are CW, RTTY and SSB. See chapter 22 for the standard telegram format used worldwide.
- Police stations. Example: Bastia Prefecture, F, call sign FIT 20B. This term comprises all territorial gendarmerie, police, prefecture and security radionets. They transmit in CW, RTTY and SSB and normally use clear language instead of encryption. Worldwide operating INTERPOL is a special case, see above.
- Press agencies. Example: Hapdong News Agency (YONHAP) Soul, KOR, call sign 6MK 60. You can receive FAX pictures and RTTY bulletins. See chapters 8 and 9 for press agency schedules. The monitoring of these stations is a favourite among SW listeners because it enables you to get a lot of information which cannot be found elsewhere, i.e. you save one step in the manipulation process. However, during the last decade, most of the famous international news agencies have ceased their SW broadcasts, and the deplorable remainder consists of several quite interesting national news agencies from the so-called "Third World", and the usual stupid political propaganda stuff from "the East" and "the West". Note that according to the legal restrictions described above under 2.2, you are generally not authorized to make any use of press bulletins monitored, i.e. you must **not** produce your own newspaper now!
- United Nations Organization (UNO) stations. Example: UNO Interim Forces in Lebanon (UNIFIL) Enn Naqoura, LBN, call sign 4UNQ. UNO stations use RTTY in clear language with an own message format. The central station is located at Geneva, SUI.

2.5.2 Aeronautical mobile service

Mainly SSB (upper sideband, USB) is used in the aeronautical mobile service, in some cases with a selective calling (SELCAL) system for direct access to a selected aircraft. There are two types of frequency bands allocated to the aeronautical mobile service.

The bands allocated to the route (R) service, e.g. 8815 - 8965 kHz, are intended for communications concerning flights along national or international civil air routes. Frequencies are spaced 3.0 kHz. See chapter 20 for the frequency allotment plan according to the various areas. These are shown on the maps at the end of this book. Worldwide allotment areas used for long-distance communication between an aeronautical station and an aircraft are defined in chapter 25 under W I to W V.

The off-route (OR) bands, e.g. 8965 - 9040 kHz, are intended for communications, including those relating to flight coordination, concerning flights primarily outside national or international civil air routes, i.e. mainly military communications. No specific frequency spacing scheme is applied in the (OR) bands.

The station types to be found are

- Aeronautical stations. Example: Valparaiso Air, CHL, no call sign used. These stations handle traffic between airports and aircraft en route, and vice versa. Several stations broadcast meteorological information for aircraft in flight (VOLMET) on selected frequencies according to a fixed schedule. VOLMET is usually read down according to the METAR and TAF codes (decoding see chapter 3 in our AIR AND METEO CODE MANUAL) for main airports in the region concerned.
- Aircraft stations. Example: Singapore 31, SNG, call sign 9VSMN, in this case named after its flight number.

2.5.3 Maritime mobile service

The frequency bands allocated to the maritime mobile service, e.g. 12230 - 13200 kHz, are further divided into sub-bands for coast stations and ship stations according to the type of modulation employed - see the regulations in chapter 21. Most frequencies are paired, e.g. in RTTY the coast station transmits on 13098.5 kHz and the ship station on 12518.5 kHz, and the same in SSB on 13110.1 and 12339.9 kHz. The station types to be found are

- Coast stations. Example: Bridgetown Radio (R), BRB, call sign 8PO. These stations relay traffic between the terrestrial telecommunication network, e.g. the public telephone and telex service, and ship stations at sea, and vice versa. Modulation types used are CW, RTTY, and SSB (USB). In RTTY, the SITOR system is normally used with a standard shift of 170 Hz - see chapter 7.4 in our RADIOTELETYPE CODE MANUAL. Fully automatic SELCAL, operation and mailbox services are already available at totally computerized coast stations such as Portishead R, G. Several coast stations use certain frequencies exclusively for broadcasting meteorological and navigational information to ship stations, e.g. United States Navy (USN) Yokosuka, J, with FAX charts on 12777.0 kHz. The NAVTEX system is described in chapter 12.
- Ship stations. Example: "Merchant Prelude", BAH, call sign C6BJ4.

2.5.4 Radiodetermination/location/navigation services

These services allow the determination of the position, velocity etc. of mobile stations such as an aircraft or a ship for navigational or other purposes. Typical stations in these services are

- Beacon stations. Example: Non-directional radio beacon (NDB) Cochabamba, BOL, characteristic signal 'CBB', on 1648.5 kHz. This station continuously transmits dashes and its characteristic signal, enabling an aircraft to determine its bearing or direction in relation to the NDB.
- Direction-finder calibration stations. Example: Kiel Phare, D, characteristic signal 'KB', on 2168.0 kHz. This station transmits dashes and its characteristic signal only upon request by a ship.

- Direction-finding stations. Example: Blavand Gonio, DNK, call sign OXB, on 1813.0 kHz. A ship calls on a separate calling frequency. After contact has been established, it transmits the signals necessary for taking bearings sometimes on another separate frequency. The gonio station transmits its bearings on the frequency mentioned.
- Navigation system stations. These stations transmit pulses according to a fixed time cycle which is different for every station in a radionet. The reception of at least two stations in combination with computer processing allows a mobile station to determine its position. Example 1: Long range navigation system (LORAN) Sheyang, CHN, no call sign used, on 1950.0 kHz. Example 2: OMEGA Le Port, REU, no call sign used, on 13.6 kHz.

Radiodetermination/location/navigation stations are not included in the frequency list (chapter 3.3) because the information transmitted is of interest to a mobile station only and not to a radio monitor. Furthermore, as described above, many stations transmit only upon request and not continuously. One exception: the single-letter beacon stations from URS are listed because they transmit continuously and may be used by radio monitors for radio propagation checks.

2.5.5 Standard frequency and time signal service

This service provides the transmission of specified frequencies, e.g. 10 MHz, and time signals, or both, of high precision for general reception. It meets the needs of time reference of a wide class of users in defence, educational, governmental and industrial establishments and of navigational and scientific purposes. The reference frequency is normally a cesium beam frequency standard. The Bureau International des Poids et des Mesures (BIPM) at Paris, F, maintains the International Atomic Time (IAT) and, consequently, the UTC time scale.

Time signals consist of one pulse per second with uniform length, with the first pulse in every minute being doubled, omitted, prolonged or shortened. The value of DUT1, i.e. the difference of the time scale UT1 based on the rotation of the Earth to the UTC, is indicated by a group of similarly marked second pulses. Several stations transmit a time code in Binary Coded Decimal (BCD) enabling a direct readout of the year, month, day, hour, minute, second and day of the week after computer processing.

An example of a standard frequency and time signal station is Taejon, KOR, call sign HLA, on 2.5 and 5 MHz.

2.6 Modulation types

Please refer to chapter 17 for the designation of emissions according to the RRs. These are not used in the frequency list (chapter 3) because we believe that e.g. the term COMB is more convenient than B9W. For the identification and description of 48 different emissions you may use our COMPACT CASSETTE RECORDING OF MODULATION TYPES.

2.6.1 CW (emission designations: A1A, A2A, F1A)

Transmissions in the Morse code are still carried out in the fixed service mainly among national and regional military and police radionets. In the maritime mobile service (MMS) it continues to be the cheapest way of installing the necessary radiocommunications equipment on board a sea-going ship, because not every shipping company - think of those flags of convenience - can afford SITOR equipment. Among other radio services and station types, traditional CW is dying out.

2.6.2 FAX (emission designations: F1C, F2C, F3C, J2C, J3C, R3C)

With the availability of reliable and easy-to-use FAX converters at reasonable prices, this mode enjoys increasing popularity among mariners, yachtsmen, pilots, radio amateurs, monitors and meteorologists. For detailed information about this subject please refer to our GUIDE TO FACSIMILE STATIONS.

2.6.3 RTTY (emission designations: F1B, F7B)

Business telegrams, clear language maritime forecasts, crew lists, departure messages, drilling results from offshore oil riggs, encoded meteo bulletins, encrypted diplomatic traffic, flight plans, ICRC messages, INTERPOL search lists, maritime traffic lists, military orders, navigational warnings, press broadcasts, UNO situation reports, waybills for shipload - virtually everything is present today in written form and must be transmitted from one point to another. Consequently, RTTY is the mode of the future. We have been aware of this trend in time and have published our famous lists and manuals, with the emphasis on RTTY, already 20 years ago. For telex service codes and abbreviations please refer to chapter 23. Basic information on RTTY alphabets, codes and systems can be found in our RADIOTELETYPE CODE MANUAL. We cooperate with certain monitoring services that are able to receive and decode teleprinter systems which can't be processed in popular decoders readily available on the market. Don't ask us for details.

2.6.4 SSB (emission designations: J3E, H3E, R3E)

SSB transmissions can be found mainly in the aeronautical mobile service (AMS), in the MMS, and in national and regional military and police nets. Contrary to the amateur service where a strange agreement prescribes LSB transmissions to be used on frequencies below 10 MHz and USB above this limit, SSB transmissions in the AMS and MMS frequency bands are made in the USB mode irrespective of any absurd regulations.

In the fixed service, the remainders of the NTAs' overseas radiotelephone circuits on SW, e.g. DTRE Paris to its corresponding stations in French speaking African countries and vice versa, normally do not transmit pure SSB. A combination of telephony and telegraphy is transmitted with e.g. a voice channel on USB and a voice-frequency telegraphy (VFT) aggregate with several narrow shift RTTY channels on LSB (emission designation: B9W). If, in this example, the LSB VFT aggregate would be replaced by another voice channel, this is ordinary ISB which is used by several broadcast feeder stations in order to transmit two programs at the same time on the same frequency (emission designation: B8E).

Although every major country has developed its own spelling code, the use of the internationally agreed phonetic alphabet and figure code should be promoted. It is given in chapter 15 of this book.

2.7 Situation report

At long last, what can be monitored today and in the near future?

In the frequency bands allocated to the fixed service, virtually all overseas broadcast feeders, telephone and telex circuits and international news agencies have disappeared. What remains is a number of press services from the so-called "Third World" and a few propaganda agencies from the East and the West. Numerous meteo stations can be received, plus air stations mainly from Africa and Asia the traffic of which includes also meteo information. There is the ICRC, INTERPOL and the UNO, and a lot of national military and police radionets on frequencies between 2 and 7 MHz. Last but not least, virtually thousands of frequencies of diplomatic and military stations can be found which benefit from modern microprocessor technique.

This is the situation from the view of a monitoring site in Europe. As soon as you go overseas - and we do this quite regularly, see chapter 1 - it changes dramatically. We have monitored stations and frequencies which will never be received in Europe or America due to propagation conditions, and which have never been monitored, identified and published before. In Madagascar, we found hundreds of local and regional air, company, government and police radionets up to 7 MHz in CW. In Sabah and Sarawak, the Borneo Island states of Malaysia, we found thousands of mini-airline, mining, offshore oil drilling, plantation, shipping, timber, trading and transport company frequencies from all South and South East Asian countries between the Arabian Gulf, Australia and China up to 10 MHz in SSB. Needless to say such frequencies are not registered at the IFRB - see under 2.3 above ...

Regarding the frequency bands allocated to the AMS, they are vital all over the world except in Europe and North America where communications are on very high frequencies (VHF} and ultra high frequencies (UHF). With the current increase of air traffic - Lufthansa has ordered fifteen AIRBUS A340-200 to be delivered between September 1992 and March 1994, plus another fifteen A340 on option! -, the AMS bands will remain of great importance to international civil aviation. The recent MOB-87, held at Geneva between 14 September and 17 October 1987, has adopted provisions which will enable the evolution of public correspondence with aircraft (APC) in the AMS (R) bands.

In the bands allocated to the MMS, the decreasing importance of Morse telegraphy in favour of RTTY and SSB increases the overloading and resulting interference in the narrow-band direct-printing telegraphy (NBDPT) sub-bands. There are already a number of coast station SITOR frequencies in the CW sub-bands and even in the fixed bands - think of Dixon R, Göteborg R, Helsinki R, Lyngby R, Mobile R, Ocean Gate R, Oostende R, Portishead R, Riga R, Warsaw R, etc. MOB-87 has decided on a total review of the MMS bands. The completely new frequency allotment plan will come into force on 0001 UTC 01 July 1991 - see chapter 21 for the agreed transfer procedures. Needless to say, it will be published in the next edition of our GUIDE TO UTILITY STATIONS. In detail, MOB-87 has made available an increased number of paired RTTY frequencies. The new NAVTEX frequency 4209.5 kHz has been assigned for use especially in the tropical and sub-tropical regions of the world due to high atmospheric noise levels on 518 kHz. The conference has also provided for a number of additional duplex SSB channels spaced 3.0 kHz (after that idiotic 3.1 kHz spacing currently in force). With increased computerization on board high seas ships, there is also a need for frequencies for data exchange, using digital transmission techniques, between shore and ship for ship's position and movement data and correction data of radionavigation systems and electronic nautical charts.

2.8 Equipment

We could write another volume the size of the book in hand to tell you stories about our experience with radio monitoring equipment during the past decades. Furthermore, we could tell you what we use now and advise you to buy exactly the same configuration and you will be satisfied with it. Really? Apart from the fact that equipment manufacturers would certainly not like us to proceed in this way - because every manufacturer is convinced that just his gear is the best available - your needs will be at the least slightly different from ours. While one user of the book in hand sits in his "radio shack" and prints press agencies in RTTY, the other one travels around the world on his yacht and relies on us for the latest FAX schedules available in order to get his selected wave height prognosis chart. The third one is the chief of staff in the monitoring service of a major country who is overequipped with the most expensive gear available on the professional market, but as he does not know how to operate it the results are miserable ...

According to the situation report above, the most interesting transmissions are mainly in RTTY nowadays, with an increasing tendency towards sophisticated synchronous systems. Next comes FAX and SSB, and finally CW. Therefore, a modern allround monitoring station is composed of the following elements:

- Antenna. The quality of the antenna system is of immense importance for the signal strength. The ideal case is a rotable logarithmic-periodic antenna, which is thus used in many professional plants. At the opposite end of the quality scale is the active antenna of only 1 or 2 m length with an amplifier which will most probably produce its own spurious signals in the HF range. This can be only a patched-up solution, compared with e.g. a 10 or 20 m longwire antenna which should be installed as high as possible. The best semi-professional solution is an array of several dipole and/or longwire antennas, arranged in different directions and connected to an antenna switch for quick selection of the best one for the frequency monitored.

- Receiver. A general coverage receiver with a continuous frequency range from 150 kHz to 30 MHz is ideal, plus the frequency range from 0 to 150 kHz if you wish to receive that VLF/LF band. The set must have
  - frequency selection by both a rotating tuning knob and a numerical keyboard;
  - frequency band sweeping and memory scanning;
  - digital frequency readout to 0.1 kHz;
  - frequency memory with a capacity of at least 50 channels;
  - modes AM, CW, LSB and USB; FAX and RTTY are not necessary;
  - bandwidths of at least 0.5, 1, 2 and 4 kHz, independently switchable of the selected mode;
  - signal strength meter;
  - pass band tuning (PBT);
  - beat frequency oscillator (BFO) - not necessary with a good PBT system;
  - audio frequency (AF) and radio frequency (RF) gain controls;
  - automatic gain control (AGC) switchable off, fast and slow;
  - switchable noise blanker;
  - double or triple superheterodyne technique with the first intermediate frequency (IF) higher than 30 MHz;
  - excellent image and intermediate frequency rejection;
  - excellent selectivity, sensitivity and stability;
  - coaxial antenna input;
  - line or recording output for connecting FAX and RTTY converters; an IF output is superfluous;
  - speaker and headphones AF output;
  - power supply 120/240 V AC and 12 V DC;
  - good instruction manual with circuit diagrams.

  The following additional features are useful:
  - receiver incremental tuning (RIT);
  - frequency memory will also store bandwidth, mode etc. settings;
  - notch filter;
  - switchable noise blanker will also fight "woodpecker" pulse noise;
  - switchable preamplifier to fight signal loss with narrow bandwidths such as 0.3 kHz;
  - antenna switch for selecting between at least two different antennas;
  - clock and timer functions;
  - tone control.

- RTTY video display converter (VDC). The set must have
  - several systems at various speeds:
    - International Telegraph Alphabet 2 (ITA2) at 45, 50, 75 and 100 Baud; bit inversion is not necessary;
    - ITA5 (ASCII) is not necessary as it is not used by professional utility stations on SW;
    - multiplex ARQ-M systems according to CCIR 242-2 and 342-3 at 2-channels 96 and 200 Baud and 4-channels 192 Baud with automatic selection of an active data channel;
    - one-way traffic forward error correction FEC-A system at variable speeds between 96 and 200 Baud;
    - single-channel ARQ-E and ARQ-E3 systems at variable speeds between 48 and 192 Baud;
    - SITOR according to CCIR 476-4 (mode A = ARQ, mode B = FEC) with switchable automatic mode selection at 100 Baud;
    - Packet Radio at 300 Baud;
  - automatic speed measurement with very high precision to identify single stations in a radionet;
  - fixed shifts at 170, 425 and 850 Hz; variable shift between 70 and 1000 Hz;
  - automatic shift tuning;
  - light-emitting diodes (LED) tuning display;
  - normal/reverse switch;
  - switchable unshift-on-space (USOS) function;
  - switchable mark-only/space-only function;

  - video display 24 lines x 72 characters;
  - AF input from the receiver's line or recording output;
  - standard video monitor output;
  - parallel (Centronics) printer output;
  - mark and space output to a tuning oscilloscope.

  The following additional features are useful:
  - CW decoding at 30 to 200 characters per minute, although we recommend you to learn to read Morse code signals yourself because the VDC cannot copy disturbed or bad handkeyed signals;
  - decoding of various additional synchronous RTTY systems;
  - parameter memory with a capacity of at least 10 channels;
  - programmable SELCAL memory with a capacity of at least 5 channels.

- RTTY tuning oscilloscope. This a must for tuning weak SITOR signals and for narrow shift signals, e.g. a single 70 or 85 Hz shift channel out of a multi-channel VFT aggregate. The cathode ray tube (CRT) should have a diameter of 3 cm or more.

- Video monitor. The CRT must have a diameter of at least 25 cm. All connecting cables must be double shielded in order to reduce HF interference going into the receiver.

- Printer. You can use any printer from the microcomputer market if its input connects to the printer output of the RTTY VDC.

- FAX converter. Modern sets connect directly to a microcomputer printer mentioned above. The set must have
  - scanning line frequencies 60, 90 and 120 rpm;
  - automatic and manual synchronization;
  - scanning line densities index of cooperation (IOC) 288 and 576;
  - automatic and manual IOC selection;
  - switchable scanning direction and polarity;
  - AF input from the receiver's line or recording output;
  - parallel (Centronics) printer output.

  The following additional features are useful:
  - scanning line frequency 240 rpm;
  - switchable status line or time print.

You may consider the additional installation of the following elements:

- Headphones. The use of headphones reduces noise pollution in your environment and enables you to concentrate on barely audible signals.

- Tape recorder enables you to reproduce a disturbed signal and modify it with e.g. an external notch and peak filter system for reducing or eliminating interference. You can record RTTY transmissions and FAX pictures as well. A compact disk recorder could provide excellent reference signals.

- Microcomputer system. With appropriate interfaces, this can be used for processing CW, FAX and RTTY signals; there is a wide range of commercial and free software available on the market. Modern receivers have interfaces which enable the control of the receiving frequency, bandwidth, mode etc., plus memory and scan functions, by a microcomputer. A computer system is used here e.g. for retrieving selected data files from the new IFL published on CD-ROMs. However, this is the very last item on our equipment list, because it is virtually impossible to operate a microcomputer system near a receiver. No matter what type of system you use and how much you spend on the shielding of cabinets and cables, there will always remain enough HF interference to drive you up the wall when you try to monitor that interesting weak station ... ☺

3 Frequency list of utility stations

3.1 Introduction

Listed are
- frequency in kHz. In the case of RTTY stations, the frequency measured is always f_0 for the F1B, R7B and B9W modulation types included in this list, and the exact single channel f_0 frequency in the case of J9W - see chapter 4 in our RADIOTELETYPE CODE MANUAL;
- call sign (apostrophe indicates routing indicator, or call sign not in compliance with official ITU allocations);
- name of the station, and ITU country/geographical symbol;
- type(s) of modulation used, and - if applicable - the corresponding return frequency. In the case of FAX and RTTY stations, this column includes details of the traffic monitored, i.e. the type of information at the time heard (see below). All times are UTC.

Not listed are
- amateur stations;
- broadcasting stations;
- military stations using tactical call signs, or operating only during the term of an exercise, as well as "number" stations and similar never-identifiable nonsense;
- mobile stations, i.e. aircraft, ships, etc.

As the primary interest nowadays is for **RTTY stations**, they are emphasized by **bold type**. *FAX stations* are accentuated by *italic type*. Frequencies for COMMON USE are printed in SMALL CAPITALS. The Frequency Allocations Information for each band in the frequency list is double underlined.

The standard RTTY transmission speed, modulation and code is 50 Baud F1BBN ITA2. Non-standard speeds such as 75, 96 or 144 Baud, non-standard modulation types such as F7B and VFT, and non-standard teleprinter systems such as ARQ-E, ARQ-E3, ARQ-M2, ARQ-M2-242, ARQ-M4, ARQ-M4-242, ARQ-N, ARQ6-90, ARQ6-98, AUTOSPEC, DPA-ITA5, DUP-ARQ, FEC-A, POL-ARQ, SAU-FEC, SI-ARQ, SITOR, SPREAD51, SWED-ARQ and VWD-ITA5, are indicated at the beginning of column 4. In the case of ARQ-M2, ARQ-M2-242, ARQ-M4 and ARQ-M4-242 stations, "A", "B", "C" and "D" indicate the respective data channel. The three-letter group in [brackets] in column 4 is the channel indicator.

In this connection, it should be noted that there is still considerable confusion among radio monitors and would-be experts about the correct application of the terms AMTOR, ARQ, FDM, SITOR, TDM, TOR, VFT, etc. The reason is the ignorance of the situation in commercial telecommunication and professional monitoring. Logically, you cannot use terms such as ARQ, FDM, FEC or TDM for one single RTTY system because they designate only generic error correction methods or multiplexing techniques which are used in many RTTY systems. The standard RTTY system names used throughout our publications were decided in 1988 at a summit meeting here in Tübingen between the world's top decoder manufacturer, representatives of major monitoring services, and ourselves. Consequently, competitive manufacturers and publishers are strongly advised to finally adopt our standards in order to bring to an end the catastrophic confusion of their customers by using e.g. several curious terms such as "ARQ-28", "TDM2", "96-TDM", etc. for the very same ARQ-M2 system. For detailed explanations please refer to our RADIOTELETYPE CODE MANUAL.

Furthermore, VFT (and not "FDM") is the correct designation for a special multi-channel teleprinter modulation type, independent of the telegraph system(s) used for the individual channels (which might be standard RTTY as defined above, or any FDM or TDM technique). As an example, take the D6B 408 emission around the assigned frequency of 20818.0 kHz. This complex system consists of an USB voice channel on 20817.4 kHz, three VFT teleprinter channels with 96 Baud ARQ-M2 and 100 Hz shift each on 20820.0, 20820.5 and 20821.0 kHz, and an LSB voice channel on 20823.7 kHz. Another example is the GYD emission around the assigned frequency of 12115.0 kHz, consisting of an LSB voice channel on 12115.00 kHz and a complex VFT aggregate combining several

VFT teleprinter channels with different techniques: 192 Baud ARQ-M4 with 340 Hz shift each on 12115.68 and 12117.36 kHz, 75 Baud encrypted with 170 Hz shift each on 12116.16, 12116.64 and 12116.88 kHz, and 96 Baud ARQ-M2 with 170 Hz shift each on 12117.60 and 12117.84 kHz.

For FAX stations, the scanning line frequency (drum speed) and the scanning line density (longitudinal speed, index of cooperation) are given, e.g. FAX 120/576 means 120 rotations per minute and IOC 576. In this connection, "LSB" indicates a station transmitting negative pictures where black and white are interchanged, which must be received on LSB instead of the standard USB in order to achieve correct pictures (if there is no polarity switch on your FAX recorder). "ISD" indicates a station with inverted scanning direction, i.e. commencing in the right-hand top corner of the picture instead of the standard left-hand top corner, which results in a mirror image. "2-panel" indicates a station transmitting two pictures, each covering one half of the picture area, at the same time. The Dollar character $ in column 4 indicates that the corresponding schedule is listed in chapter 11.

In the case of air stations, the three-letter groups in [brackets] in column 4 is the AFTN Circuit Identification (see chapter 9.3 in our AIR AND METEO CODE MANUAL).

In the AMS frequency bands, the allotment areas are listed in MWARA/RDARA/VOLMET area order. Example: "10057.0 AMS = CEP, 3A, VAFI" means "the Aeronautical Mobile Service frequency 10057.0 kHz is allocated to MWARA CEP, to RDARA 3A and to VOLMET area AFI". The meaning of these mnemonics is explained in the abbreviations list (chapter 25), and the geographical coverage of these areas is shown on the attached maps.

In the MMS frequency bands, ***scheduled RTTY coast station frequencies*** which are most probably in operation but have not been monitored during the last 12 months are also listed. They are printed in ***bold italic*** type, and the word "scheduled" is written in column 4 instead of traffic details. These entries are not filed in the call sign list (chapter 6). Ship stations' CW working frequencies are not included because these series are grouped by countries in a rather complex procedure which is too comprehensive to be listed in all details.

If the location of a station had to be abbreviated in order to meet the format requirements, its full name may be looked up in the call sign list (chapter 6).

The frequency band information derives from the Table of Frequency Allocations decided at the World Administrative Radio Conference 1979. It considers the then new bands made available to the amateur, broadcasting, and maritime services. However, in the transfer phase that keeps on, the following bands are still used by the fixed service, too (see RRs 531/532/537/543/544 in chapter 3.4): 9775 - 9900 kHz; 11650 - 11700 kHz; 11975 - 12050 kHz; 12230 - 12330 kHz; 13600 - 13800 kHz; 15450 - 15600 kHz; 16360 - 16460 kHz; 17360 - 17410 kHz; 17550 - 17700 kHz; 18068 - 18168 kHz; 21750 - 21850 kHz; 24890 - 24990 kHz; 25110 - 25210 kHz; and 26100 - 26175 kHz.

Example 1: "14564.0 5BC 68 Nicosia R, CYP SSB QSX 16442.0 kHz" means "Frequency 14564.0 kHz, call sign 5BC 68, station name Nicosia Radio (coastal station), country Cyprus, type of modulation single sideband, corresponding return frequency 16442.0 kHz"

Example 2: "*5117.0 3MA 29 CNA Taipei, TAI FAX 60/288 LSB ISD: 0201-1126 C nx (text)*" means "Frequency 5117.0 kHz, call sign 3MA 29, station name Central News Agency Inc Taipei, country Taiwan, facsimile station, scanning line frequency 60 rotations per minute, scanning line density (index of cooperation) 288, the station transmits negative pictures where black and white are interchanged, inverted scanning direction, time 0201 - 1126 Coordinated Universal Time, traffic monitored Chinese news (text)"

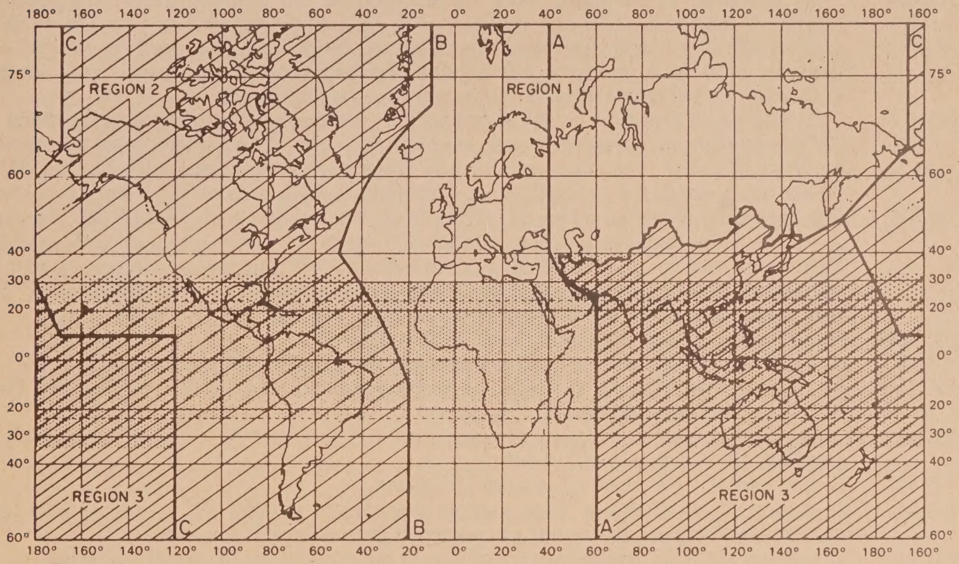
Example 3: "**19144.0 'RFTJ' FF Dakar, SEN ARQ-M2 96 Bd: A: 1245 "controle de voie" [TJA]**" means "Frequency 19144.0 kHz, NATO routing indicator RFTJ, station name French Forces Dakar, country Senegal, radioteletype station, multiplex ARQ system according to CCIR 342-3, speed 96 Baud, data channel A, time 1245 Coordinated Universal Time, traffic monitored "controle de voie", channel indicator TJA"

3.2 Frequency allocations

Note The Frequency Allocations Information is included in the frequency list of utility stations (3.3). It is double underlined and is written on top of each frequency band. The figures attached in <brackets> are the numbers of the respective footnotes. These are listed in 3.4.

Section I - Regions and Areas

RR 392 For the allocation of frequencies the world has been divided into three Regions as shown on the following map and described in RRs 393 to 399 (it should be noted that where the words "regions" or "regional" are without a capital "R" in these Regulations, they do not relate to the three Regions here defined for purposes of frequency allocation):



The shaded part represents the Tropical Zone as defined in RRs 406 to 410 and 411.

RR 393 Region 1 includes the area limited on the east by line A (lines A, B and C are defined below) and on the west by line B, excluding any of the territory of IRN which lies between these limits. It also includes that part of the territory of TUR and URS lying outside of these limits, the territory of MNG, and the area to the north of URS which lies between lines A and C.

RR 394 Region 2 includes the area limited on the east by line B and on the west by line C.

RR 395 Region 3 includes the area limited on the east by line C and on the west by line A, except the territories of MNG, TUR, URS and the area to the north of URS. It also includes that part of the territory of IRN lying outside of those limits.

RR 396 The lines A, B and C are defined as follows:

RR 397 Line A extends from the North Pole along meridian 40° East of Greenwich to parallel 40° North; thence by great circle arc to the intersection of meridian 60° East and the Tropic of Cancer; thence along the meridian 60° East to the South Pole.

RR 398 Line B extends from the North Pole along meridian 10° West of Greenwich to its intersection with parallel 72° North; thence by great circle arc to the intersection of meridian 50° West and parallel 40° North; thence by great circle arc to the intersection of meridian 20° West and parallel 10° South; thence along meridian 20° West to the South Pole.

RR 399 Line C extends from the North Pole by great circle arc to the intersection of parallel 65°30' North with the international boundary in Bering Strait; thence by great circle arc to the intersection of meridian 165° East of Greenwich and parallel 50° North; thence by great circle arc to the intersection of meridian 170° West and parallel 10° North; thence along parallel 10° North to its intersection with meridian 120° West; thence along meridian 120° West to the South pole.

RR 400 For the purposes of these Regulations, the term "African Broadcasting Area" means:

RR 401 a) African countries, parts of countries, territories and groups of territories situated between the parallels 40° South and 30° North;

RR 402 b) islands in the Indian Ocean west of meridian 60° East of Greenwich, situated between the parallel 40° South and the great circle arc joining the points 45° East, 11°30' North and 60° East, 15° North;

RR 403 c) islands in the Atlantic Ocean east of line B defined in RR 398, situated between the parallels 40° South and 30° North.

RR 404 The "European Broadcasting Area" is bounded on the west by the western boundary of Region 1, on the east by the meridian 40° East of Greenwich and on the south by the parallel 30° North so as to include the western part of URS, the northern part of ARS and that part of those countries bordering the Mediterranean within these limits. In addition, IRQ and JOR are included in the European Broadcasting Area.

RR 405 The "European Maritime Area" is bounded to the north by a line extending along parallel 72° North from its intersection with meridian 55° East of Greenwich to its intersection with meridian 5° West, then along meridian 5° West to its intersection with parallel 67° North, thence along parallel 67° North to its intersection with meridian 32° West; to the west by a line extending along meridian 32° West to its intersection with parallel 30° North; to the south by a line extending along parallel 30° North to its intersection with meridian 43° East; to the east by a line extending along meridian 43° East to its intersection with parallel 60° North, thence along parallel 60° North to its intersection with meridian 55° East and thence along meridian 55° East to its intersection with parallel 72° North.

RR 406 The "Tropical Zone" (see map in RR 392) is defined as:

RR 407 a) the whole of that area in Region 2 between the Tropics of Cancer and Capricorn;

RR 408 b) the whole of that area in Regions 1 and 3 contained between the parallels 30° North and 35° South with the addition of:

RR 409 1) the area contained between the meridians 40° East and 80° East of Greenwich and the parallels 30° North and 40° North;

RR 410 2) that part of LBY north of parallel 30° North.

RR 411 In Region 2, the Tropical Zone may be extended to parallel 33° North, subject to special agreements, between the countries concerned in that Region (see Article 7).

RR 412 A sub-Region is an area consisting of two or more countries in the same Region.

Section II - Categories of Services and Allocations

RR 413 **Primary, Permitted and Secondary Services**

RR 414 Where, in the Frequency Allocations Information, a band is indicated as allocated to more than one service, either on a worldwide or Regional basis, such services are listed in the following order:

RR 415 a) services the names of which are printed in "capitals" (example: FIXED); these are called "primary" services;

RR 416 b) services the names of which are printed in "capitals between oblique strokes" (example: /RADIOLOCATION/); these are called "permitted" services (see RR 419);

RR 417 c) services the names of which are printed in "normal characters" (example: Mobile); these are called "secondary" services (see RRs 420 to 423).

RR 418 Additional remarks shall be printed in normal characters (example: MOBILE except aeronautical mobile).

RR 419 Permitted and primary services have equal rights, except that, in the preparation of frequency plans, the primary service, as compared with the permitted service, shall have prior choice of frequencies.

RR 420 Stations of a secondary service:

RR 421 a) shall not cause harmful interference to stations of primary or permitted services to which frequencies are already assigned or to which frequencies may be assigned at a later date;

RR 422 b) cannot claim protection from harmful interference from stations of a primary or permitted service to which frequencies are already assigned or may be assigned at a later date;

RR 423 c) can claim protection, however, from harmful interference from stations of the same or other secondary service (-s) to which frequencies may be assigned at a later date.

RR 424 Where a band is indicated in a footnote as allocated to a service on a "secondary" basis in an area smaller than a Region, or in a particular country, this is a secondary service (see RRs 420 to 423).

RR 425 Where a band is indicated in a footnote as allocated to a service "on a primary basis", or "on a permitted basis" in an area smaller than a Region, or in a particular country, this is a primary service or a permitted service only in that area or country (see RR 419).

RR 426 **Additional Allocations**

RR 427 Where a band is indicated in a footnote as "also allocated" to a service in an area smaller than a Region, or in a particular country, this is an "additional" allocation, i.e. an allocation which is added in this area or in this country to the service or services which are indicated in the Frequency Allocations Information (see RR 428).

RR 428 If the footnote does not include any restriction on the service or services concerned apart from the restriction to operate only in a particular area or country, stations of this service or these services shall have equality of right to operate with stations of the other primary service or services indicated in the Frequency Allocations Information.

RR 429 If restrictions are imposed on an additional allocation in addition to the restriction to operate only in a particular area or country, this is indicated in the footnote.

RR 430 **Alternative Allocations**

RR 431 Where a band is indicated in a footnote as "allocated" to one or more services in an area smaller than a Region, or in a particular country, this is an "alternative" allocation, i.e. an allocation which replaces, in this area or in this country, the allocation indicated in the Frequency Allocations Information (see RR 423).

RR 432 If the footnote does not include any restriction on stations of the service or services concerned, apart from the restriction to operate only in a particular area or country, these stations of such a service or services shall have an equality of right to operate with stations of the primary service or services, indicated in the Frequency Allocations Information, to which the band is allocated in other areas or countries.

RR 433 If restrictions are imposed on stations of a service to which an alternative allocation is made, in addition to the restriction to operate only in a particular country or area, this is indicated in the footnote.

RR 434 **Miscellaneous Provisions**

RR 435 Where it is indicated in these Regulations that a service may operate in a specific frequency band subject to not causing harmful interference, this means also that this service cannot claim protection from harmful interference by other services to which the band is allocated under Chapter III of these Regulations.

RR 436 Except if otherwise specified in a footnote, the term "fixed service", where appearing in Section IV of this Article, does not include systems using ionospheric scatter propagation.

Section III - Description of the Frequency Allocations Information

RR 439 Within each of the categories specified in RRs 415 to 417, services are listed in alphabetical order according to the French language. The order of listing does not indicate relative priority within each category.

RR 440 In the case where there is a parenthetical addition to an allocation in the Frequency Allocations Information, that service allocation is restricted to the type of operation so indicated.

RR 443 In certain cases, the names of countries appearing in the footnotes have been abbreviated in order to shorten the text, using the ITU symbols designating countries or geographical areas (see chapter 25 of this reference book). ☺

3.3 Frequency list

below 9.0 not allocated <444 445>

9.0 - 148.5 VARIOUS SERVICES

23.4	**DHO 38**	**GN West Rhauderfehn, D**	**2112 clg 'G23DG'**
50.0	OMA	Prague TS, TCH	CW
	RTZ	Irkutsk TS, SE, URS	CW
53.6	*RTO*	*Moscow Meteo, RU, URS*	*FAX $*
60.0	MSF	Rugby TS, G	CW
	WWVB	Fort Collins TS, CO, USA	CW
75.0	HBG	Nyon TS, SUI	CW
77.5	DCF 77	Mainflingen TS, D	CW
82.8	GYB	RN London, G	CW
110.6	**DCF 30**	**DPA Hamburg, D**	**F7B: modified ITA5 300 Bd: 0200+0500-2200 G nx**
111.3	**SOA 211**	**Warsaw Meteo, POL**	**24 h ry or wx**
111.8	*OLT 21*	*Prague Meteo, TCH*	*FAX $*
117.4	*DCF 37*	*Offenbach Meteo, D*	*FAX $*
118.5	IDQ	IN Rome, I	CW
122.5	**CFH**	**CF Halifax, NS, CAN**	**75 Bd: 24 h wx** *FAX $*
123.7	**DCF 42**	**PIAB Bonn, D**	**FEC-A 96 Bd: 0545-0745+1345-1445 G nx**
124.0	CKN	CF Vancouver, BC, CAN	CW
124.6	*OLT 3*	*Prague Meteo, TCH*	*FAX $*
129.1	**DCF 45**	**VWD Frankfurt, D**	**F7B: modified ITA5 300 Bd: 0400-1800 G nx**
129.5	**SOA 212**	**Warsaw Meteo, POL**	**24 h wx**
134.2	*DCF 54*	*Offenbach Meteo, D*	*FAX $*
139.0	*DCF 39*	*DPA Frankfurt, D*	*FAX 120/352 ISD: 0300-2300 AFP/AP//DPA/EPA/INDEX-FUNK/UPI pix*
140.3	**DCF 60**	**EPD/SID Frankfurt, D**	**F7B: modified ITA5 300 Bd: 0800-2200 G nx**
144.5	*RCG*	*Moscow Meteo, RU, URS*	*FAX $*
146.0	**Y5M**	**Rügen R, D**	**1916+2028 clg Y5AA**
147.3	DDH 47	Hamburg Meteo, D	CW

1606.5 - 1625.0 Region 1 = MARITIME MOBILE + /FIXED/ + /LAND MOBILE/ <480A 483 484>
Region 2 = BROADCASTING <480 480A 481>
Region 3 = FIXED + MOBILE + RADIOLOCATION + RADIONAVIGATION <482>

1610.0	S3K	Hiran Point Pilot R, BGD	SSB
1613.0	OXZ	Lyngby R, DNK	**SITOR-A: 0417 tts** CW

1617.0	S3K	Hiran Point Pilot R, BGD	SSB	
1625.0 - 1635.0		Region 1 = RADIOLOCATION <485 486 487> Region 2 = BROADCASTING + /FIXED/ + /MOBILE/ + Radiolocation <480 480A 481> Region 3 = FIXED + MOBILE + RADIOLOCATION + RADIONAVIGATION <482>		
1635.0 - 1705.0		Region 1 = MARITIME MOBILE + /FIXED/ + /LAND MOBILE/ <480A 483 484 488> Region 2 = BROADCASTING + /FIXED/ + /MOBILE/ + Radiolocation <480 480A 481> Region 3 = FIXED + MOBILE + RADIOLOCATION + RADIONAVIGATION <482>		
1637.0	3VW 1	Bizerte Port R, TUN	SSB	
1640.0	TFM	Neskaupstadur R, ISL	SSB	QSX 2002.0 kHz
1643.0	IQA	Augusta R, I	SSB	
1646.0	**LGF 2**	**Rogaland R, NOR**	**SITOR-A: 0528-0848 + 1522-0239 tts; QSX 3147.0 kHz** CW	
1649.5	OSA	Antwerpen R, BEL	SSB	
	OSU	Oostende R, BEL	SSB	
1650.0	LZL	Bourgas R, BUL	SSB	
	SAH	Härnösand R, S	SSB	QSX 2216.0 kHz
	TFA	Reykjavik R, ISL	SSB	QSX 2002.0 kHz
	VWA 1	Ramnagar Port R, IND	CW	
	VWA 2	Hugli Port R, IND	CW	
	VWA 509	Haldia Port R, IND	CW	
	5VA	Lome R, TOG	SSB	
		SAPB Oran R, ALG	SSB	
		SAPB Skikda R, ALG	SSB	
1652.5	OSA	Antwerpen R, BEL	SSB	
	OSU	Oostende R, BEL	SSB	
1656.0	ETC	Assab R, ETH	CW/SSB	
1662.5		St. P. Port R, Guernsey, G	SSB	
1663.0	ETC	Assab R, ETH	CW/SSB	
1663.5	CUB	Funchal R, MDR	SSB	
	CUG	Ponta Delgada R, AZR	SSB	
1667.0	ICB	Genova R, I	SSB	
1672.0	**GKR**	**Wick R, G**	**SITOR-A: 1522 + 1536 + 1543 + 2026-0747 tts; QSX 2496.8 kHz** CW	
1672.4	3VS	Sfax R, TUN	SSB	
1673.0	FFU	Brest - Le Conquet R, F	SSB	
	TFT	Hornafjoerdur R, ISL	SSB	QSX 2023.0 kHz
1675.0	IQH	Napoli R, I	SSB	
1677.0	Y5M	Rügen R, D	SSB	
1678.0	EAC	Tarifa R, E	SSB	
1680.0	ICZ	Venezia R, I	SSB	QSX 2023.0 kHz
	SUK	Quseir R, EGY	SSB	
	SVN	Athens R, GRC	SSB	
	Y5M	Rügen R, D	SSB	
1687.0	FFO	Saint Nazaire R, F	SSB	
	OXZ	Lyngby R, DNK	SSB	QSX 2069.0 kHz
1687.4	3VB	Bizerte R, TUN	SSB	
1690.0	EAV	Cabo de la Nao R, E	SSB	

1691.5		Cillero R, E	SSB	
1694.0	FFB	Boulogne-sur-Mer R, F	SSB	
	LGA	Alesund R, NOR	SSB	QSX 2049.0 kHz
	LGS	Svalbard R, Spitsbgn., NOR	SSB	QSX 2541.0 kHz
1696.0	SVK	Kerkyra R, GRC	SSB	
1696.4	3VM	Mahdia R, TUN	SSB	
1698.0	EAF	Finisterre R, E	SSB	
1700.0	ZSL 20	Lüderitz R, NMB	SSB	QSX 2013.0 kHz
	ZSV 24	Walvis Bay R, NMB	SSB	
	ZS. ..	many R stations, AFS	SSB	
		Chipiona R, E	SSB	
1701.0	OXP	Skagen R, DNK	SSB	QSX 1988.0 kHz
1704.0		Machichaco R, E	SSB	

1705.0 - 1800.0

Region 1 = MARITIME MOBILE + /FIXED/ + /LAND MOBILE/ <480A 483 484 488>
Region 2 = AERONAUTICAL RADIONAVIGATION + FIXED + MOBILE + RADIOLOCATION
Region 3 = FIXED + MOBILE + RADIOLOCATION + RADIONAVIGATION <482>

1705.0	IPP	Palermo R, I	SSB	QSX 2023.0 kHz
	OSA	Antwerpen R, BEL	SSB	
	OSU	Oostende R, BEL	SSB	
1706.0	GKR	Wick R, G	SSB	
	GLD	Land's End R, G	SSB	
1707.0	S3K	Hiran Point Pilot R, BGD	SSB	
		Sada R, E	SSB	
1708.0	OSA	Antwerpen R, BEL	SSB	
	OSU	Oostende R, BEL	SSB	
	OXJ	Torshavn R, Faroe Is., DNK	SSB	QSX 2097.0 kHz
	4XT 2	Genosar R, ISR	SSB	
	4XT 3	Tiberias R, ISR	SSB	
	4XT 4	En-Gev R, ISR	SSB	
		Oostende Pilot R, BEL	SSB	
		Vlissingen Pilot R, BEL	SSB	
		Zeebrugge Pilot R, BEL	SSB	
1709.5	*OFA*	*Helsinki R, FNL*	*scheduled; QSX 2485.5 kHz*	
1710.0	ZSA 21	Cape Agulhas R, AFS	SSB	
	ZSE 21	East London R, AFS	SSB	
	ZSL 21	Lüderitz R, NMB	SSB	
	ZSM 21	Cape Columbine R, AFS	SSB	
1713.0	OXB	Blaavand R, DNK	SSB	QSX 2059.0 kHz
1715.0	IPC	Crotone R, I	SSB	
	TFV	Vestmannaeyjar R, ISL	SSB	QSX 2484.0 kHz
1716.0	Y5M	Rügen R, D	SSB	
1719.0	Y5M	Rügen R, D	SSB	QSX 2550.0 kHz
1720.0	EAT	Tenerife R, CNR	SSB	
1722.0	FFO	Saint Nazaire R, F	SSB	
	IDC	Cagliari R, I	SSB	QSX 2023.0 kHz
	LGA	Alesund R, NOR	SSB	QSX 2442.0 kHz
	LGI	Hammerfest R, NOR	SSB	QSX 2442.0 kHz
	LMJ	Jan Mayen R, NOR	SSB	QSX 2442.0 kHz
1726.0	HZH	Jeddah R, ARS	SSB	QSX 1965.6 kHz
		Saint Helier R, Jersey, G	SSB	QSX 2381.0 kHz
1729.0	LGQ	Rogaland R, NOR	SSB	QSX 2449.0 kHz
	LGV	Vardoe R, NOR	SSB	QSX 2449.0 kHz
1730.0		Arrecife R, E	SSB	QSX 2013.0 kHz
		Barcelona R, E	SSB	

1734.2	UGK 5	Kaliningrad R, RU, URS	SSB	
1735.0	7TO	Oran R, ALG	SSB	
1736.0	LGH	Harstad R, NOR	SSB	QSX 2045.0 kHz
	LGS	Svalbard R, Spitsbgn., NOR	SSB	QSX 2456.0 kHz
	LGT	Tjoeme R, NOR	SSB	QSX 2456.0 kHz
1737.0	ICP	Trapani R, I	SSB	QSX 2023.0 kHz
1740.0	EAB	Bagur R, E	SSB	
1742.0	SVH	Iraklion R, GRC	SSB	
1743.0	CND 3	Safi R, MRC	SSB	
	FFR	Le Havre Signal R, F	SSB	
	LFO	Oerlandet R, NOR	SSB	QSX 2463.0 kHz
	LGI	Hammerfest R, NOR	SSB	QSX 2045.0 kHz
	LGN	Bergen R, NOR	SSB	QSX 2463.0 kHz
	3VW/.	many Port R stations, TUN	SSB	
1745.0	6MA	Mosulpo F R, KOR	CW	
1748.0		La Coruna R, E	SSB	
1750.0	EAL	Las Palmas R, CNR	SSB	
	LGH	Harstad R, NOR	SSB	QSX 2470.0 kHz
	LGZ	Farsund R, NOR	SSB	QSX 2470.0 kHz
	LZW	Varna R, BUL	SSB	
	ZSA 21	Cape Agulhas R, AFS	SSB	QSX 2002.0 kHz
	ZSE 21	East London R, AFS	SSB	QSX 2002.0 kHz
	ZSL 22	Lüderitz R, NMB	SSB	
	ZSM 21	Cape Columbine R, AFS	SSB	QSX 2002.0 kHz
1754.0		COPE Bermeo R, E	SSB	
1755.0	FJA	Papeete R, Tahiti, OCE	SSB	
1757.0	LGD	Oerlandet R, NOR	SSB	QSX 2576.0 kHz
	LGL	Floroe R, NOR	SSB	QSX 2576.0 kHz
	LJB	Bjoernoeya R, Bear I., NOR	SSB	QSX 2576.0 kHz
	SPO	Szczecin R, POL	SSB	
1757.5	EAS	Cabo Penas R, E	SSB	
1760.0	TAF	Samsun R, TUR	SSB	
	VUK 5	Bedi Port R, IND	SSB	
1764.0	PCG	Scheveningen R, NLD	SSB	QSX 2030.0 kHz
1765.0	ZSL 23	Lüderitz R, NMB	SSB	
	ZSV 4	Walvis Bay R, NMB	SSB	
	ZS. ..	many R stations, AFS	SSB	QSX 2009.0 kHz
1768.4	3VT	Tunis R, TUN	SSB	
1771.0	FFB	Boulogne-sur-Mer R, F	SSB	
	IPB	Bari R, I	SSB	
	SDJ	Stockholm R, S	SSB	QSX 2477.0 kHz
	3VM	Mahdia R, TUN	SSB	
1778.0	OXJ	Torshavn R, Faroe Is., DNK	SSB	QSX 2069.0 kHz
	SDJ	Stockholm R, S	SSB	QSX 1974.0 kHz
1780.0	HZG	Dammam R, ARS	SSB	QSX 1956.6 kHz
1785.0	SAG	Goeteborg R, S	SSB	QSX 2037.0 kHz
1792.0	7TA	El Djaza'ir R, ALG	SSB	
		St. P. Port R, Guernsey, G	SSB	QSX 2381.0 kHz
1796.0	DAN	Norddeich R, D	SSB	QSX 2488.0 kHz
1799.0	DAN	Norddeich R, D	SSB	QSX 2491.0 kHz

1800.0 - 1810.0 Region 1 = RADIOLOCATION <485 486 487>
Region 2 = AMATEUR
Region 3 = AMATEUR + FIXED + MOBILE except aeronautical mobile + RADIONAVIGATION + Radiolocation <489>

1800.0		Cedeira R, E	SSB	
		COPE Ayamonte R, E	SSB	

1803.0	LGI	Hammerfest R, NOR	SSB	QSX 2045.0 kHz
1806.0	FFU	Brest - Le Conquet R, F	SSB	
	IZN	Porto Torres R, I	SSB	QSX 2023.0 kHz

1810.0 - 1850.0

Region 1 = AMATEUR <490 491 492 493>
Region 2 = AMATEUR
Region 3 = AMATEUR + FIXED + MOBILE except aeronautical mobile + RADIONAVIGATION + Radiolocation <489>

1810.0		Burela R, E	SSB	
		St. P. Port R, Guernsey, G	SSB	
1813.0	J2A	Jibuti R, DJI	SSB	
	OXB	Blaavand R, DNK	SSB	QSX 2076.0 kHz
	TYA	Cotonou R, BEN	SSB	
	3XC 4	Conakry R, GUI	SSB	
	3XO 6	Kamsar R, GUI	SSB	
	6VA	Dakar R, SEN	SSB	
1817.0	OSU	Oostende R, BEL	SSB	
1818.0	SPC	Gdynia R, POL	SSB	
1820.0	FFC	Arcachon R, F	SSB	
	OSU	Oostende R, BEL	SSB	
	SVX	Chios R, GRC	SSB	
1824.0	GNK	Norwick R, G	SSB	
	SVR	Rhodes R, GRC	SSB	
1825.0	HZG	Dammam R, ARS	SSB	QSX 2002.0 kHz
1827.0	EJK	Valentia R, IRL	SSB	
	GKR	Wick R, G	SSB	
1830.5	DHJ 59	GN Wilhelmshaven, D	CW	
1831.0	OSN 41	BN Oostende, BEL	CW	
1834.0	GNI	Niton R, G	SSB	
	TKM	Grasse R, F	SSB	
1835.0	9GA	Takoradi R, GHA	SSB	
1838.0	GCC	Cullercoats R, G	SSB	
1840.0		Santona R, E	SSB	
1841.0	EJM	Malin Head R, IRL	SSB	
	GLD	Land's End R, G	SSB	
1848.0	GNF	North Foreland R, G	SSB	
	ICP	Trapani R, I	SSB	QSX 2023.0 kHz
1849.0	SUK	Quseir R, EGY	SSB	

1850.0 - 2000.0

Region 1 = FIXED + MOBILE except aeronautical mobile <484 488 495>
Region 2 = AMATEUR + FIXED + MOBILE except aeronautical mobile + RADIONAVIGATION + RADIOLOCATION <494>
Region 3 = AMATEUR + FIXED + MOBILE except aeronautical mobile + RADIONAVIGATION + Radiolocation <489>

1850.0	TAN	Izmir R, TUR	SSB	
	TAT	Canakkale R, TUR	SSB	
1852.0	OFH	Mariehamn R, FNL	SSB	QSX 2196.0 kHz
1855.0	IQP	San Benedetto del Tr. R, I	SSB	QSX 2023.0 kHz
1856.0	GHD	Gallan Head R, G	SSB	
	GND	Stonehaven R, G	SSB	
	HZH	Jeddah R, ARS	SSB	QSX 2037.0 kHz
1862.0	FFC	Arcachon R, F	SSB	

1862.0	PCG	Scheveningen R, NLD	SSB	QSX 2160.0 kHz
	TFX	Siglufjoerdur R, ISL	SSB	QSX 2506.0 kHz
	TFZ	Isafjoerdur R, ISL	SSB	QSX 2023.0 kHz
1866.0	GHD	Gallan Head R, G	SSB	
		Aguino R, E	SSB	
		Cabo de Gata R, E	SSB	
1869.0	GKZ	Humber R, G	SSB	
1873.0	4XD	Potash R, ISR	SSB	
1876.0	FFU	Brest - Le Conquet R, F	SSB	
	IQM	Lampedusa R, I	SSB	QSX 2023.0 kHz
	OFH	Mariehamn R, FNL	SSB	QSX 2009.0 kHz
	TFA	Reykjavik R, ISL	SSB	QSX 2506.0 kHz
1879.0	SVN	Athens R, GRC	SSB	
1880.0	DAO	Kiel R, D	SSB	QSX 2566.0 kHz
	6M./.	many Port R stations, KOR	SSB	
1881.0	5TA	Nouadhibou R, MTN	SSB	
1883.0	DAO	Kiel R, D	SSB	QSX 2569.0 kHz
	GPK	Portpatrick R, G	SSB	
	IQQ	Mazara del Vallo R, I	SSB	
	TFX	Siglufjoerdur R, ISL	SSB	QSX 2484.0 kHz
1888.0	IPD	Civitavecchia R, I	SSB	QSX 2023.0 kHz
1890.0	PCG	Scheveningen R, NLD	SSB	QSX 2513.0 kHz
	TFA	Reykjavik R, ISL	SSB	
	4XD	Potash R, ISR	SSB	
1901.0	OSA	Antwerpen R, BEL	SSB	
	OSU	Oostende R, BEL	SSB	
1904.0	OSA	Antwerpen R, BEL	SSB	
	OSU	Oostende R, BEL	SSB	
	SAG	Goeteborg R, S	SSB	QSX 2221.0 kHz
		Isla Cristina R, E	SSB	
1905.0	OSU	Oostende R, BEL	SSB	
	SAB	**Goeteborg R, S**	**SITOR-A: 1710-0748 tts**	
1906.0	FFM	Marseille R, F	SSB	
1908.0	DAN	Norddeich R, D	SSB	QSX 2538.0 kHz
	OSU	Oostende R, BEL	SSB	
1911.0	CND	Agadir R, MRC	SSB	
	CNW	Tanger R, MRC	SSB	
	DAN	Norddeich R, D	SSB	QSX 2541.0 kHz
	7TB	Annaba R, ALG	SSB	
1915.0	DAO	Kiel R, D	SSB	QSX 3158.0 kHz
1918.0	DAO	Kiel R, D	SSB	QSX 3161.0 kHz
	4XT	Tel Aviv R, ISR	SSB	
1919.5	**PCH 85**	**Scheveningen R, NLD**	**SITOR-A: 1550-0758 tts; QSX 1972.5 kHz**	
			CW	
1920.0	DSB	Pusan F R, KOR	CW	
	HLU	Taeha-dong R, U.d.l., KOR	CW	
1925.0	IPL	Livorno R, I	SSB	
1939.0	FFM	Marseille R, F	SSB	
	PCG	Scheveningen R, NLD	SSB	QSX 2160.0 kHz
1940.0	9GX	Tema R, GHA	SSB	
1946.0	GND	Stonehaven R, G	SSB	
1972.5		**ship stations**	**QSX 1919.5 kHz (PCH 85)**	
1980.0	9MP 6	Kelang R, MLA	SSB	QSX 2694.0 kHz
1997.5	CBV	DGTMMM Valparaiso R, CHL	SSB	

2000.0 - 2025.0 Region 1 = FIXED + MOBILE except aeronautical mobile (R)
<484 495>
Regions 2 + 3 = FIXED + MOBILE

2000.0	ODB 6	LN Beirut, LBN	CW	
2000.7		**ship stations**	**QSX 3615.7 kHz (GND)**	
2003.5	VWB	Bombay R, IND	SSB	
	VWC	Calcutta R, IND	SSB	
	VWT	Tuticorin R, IND	SSB	
2005.0	S3L	Chittagong Port R, BGD	SSB	
	S3P	Juldia Port R, BGD	SSB	
2009.0	HLU	Taeha-dong R, U.d.I., KOR	SSB	QSX 2312.0 kHz
2012.0	ZKJ	Penrhyn R, CKH	SSB	
	ZKO	Aitutaki R, CKH	SSB	
	ZMH ..	many Harbour R stns., NZL	SSB	
2015.0	DSB	Pusan F R, KOR	CW	
2019.0		Osaka Harbour R, J	SSB	
2020.0	VJC	RFDS Bkn. Hill, NSW, AUS	SSB	
	VJD	RFDS Alice Spr., NT, AUS	SSB	
	VJI	RFDS Mt. Isa, QLD, AUS	SSB	
	VJJ	RFDS Charlevl., QLD, AUS	SSB	
	VJN	RFDS Cairns, QLD, AUS	SSB	
	VNZ	RFDS Pt. Augusta, SA, AUS	SSB	

2025.0 - 2045.0 Region 1 = FIXED + MOBILE except aeronautical mobile (R) +
Meteorological Aids <484 495 496>
Regions 2 + 3 = FIXED + MOBILE

2027.0	DSR 52	Geojin F R, KOR	SSB	
		Anhung F R, KOR	SSB	
2030.0	COB 7	Manzanillo F R, CUB	SSB	
2032.0	6MA	Mosulpo F R, KOR	SSB	
	6MN	Sokcho F R, KOR	SSB	
		Cheju F R, KOR	SSB	
2036.0	WCC	Chatham R, MA, USA	CW	
2037.5	KFS	San Francisco R, CA, USA	CW	
	VWK	Kandla R, IND	SSB	
	VWL	Mangalore R, IND	SSB	
	VWP	Port Blair R, IND	SSB	
2038.0	TXU	Saint-Pierre R, SPM	SSB	
2040.0	DSQ	Inchon F R, KOR	CW	
2040.5	CW. ..	many UN stations, URG	SSB	
2042.5	VWM	Madras R, IND	SSB	
	VWZ	Ratnagiri R, IND	SSB	
2043.0	HLN	Kunsan R, KOR	CW	
2044.0	HLY	Yosu R, KOR	SSB	QSX 2312.0 kHz

2045.0 - 2065.0 Region 1 = MARITIME MOBILE + /FIXED/ + /LAND MOBILE/
<483 484>
Regions 2 + 3 = FIXED + MOBILE

2045.0	REGION 1	SHIP-TO-SHORE WORKING FREQ.	SSB
	KPH	San Francisco R, CA, USA	CW
2046.0	HKB	Barranquilla R, CLM	SSB
	S3K	Hiran Point Pilot R, BGD	SSB
2047.5	VWG	Goa R, IND	SSB
2048.0	REGION 1	INTERSHIP WORKING FREQ.	SSB
	WNU	Slidell R, LA, USA	CW

2049.0	HKC	Buenaventura R, CLM	SSB	
	S3K	Hiran Point Pilot R, BGD	SSB	
		Zanzibar R, TZA	SSB	
2050.0	HLC	Inchon R, KOR	CW	
	HLK	Gangreung R, KOR	CW	
	HLP	Pusan R, KOR	CW	
2051.0	REGION 1	ADD. SHIP-TO-SHORE WKG. F.	SSB	
2053.0	HKB	Barranquilla R, CLM	SSB	
2054.0	REGION 1	ADD. SHIP-TO-SHORE WKG. F.	SSB	
	VA.	many CCG stations, CAN	SSB	
2055.5	WLO	Mobile R, AL, USA	CW	
2056.0	VI.	many R stations, AUS	SSB	QSX 2760.0 kHz
2057.0	REGION 1	ADD. SHIP-TO-SHORE WKG. F.	SSB	
	OXI	Nuuk R, GRL	SSB	QSX 1638.0 kHz
2060.0	CGA 266	Prince Rupert R, BC, CAN	SSB	QSX 2798.0 kHz
	VPS	Victoria Island R, HKG	SSB	QSX 2547.0 kHz
2061.5	KFS	San Francisco R, CA, USA	CW	
2063.0	KLB	Seattle R, WA, USA	CW	
	KLC	Galveston R, TX, USA	CW	

2065.0 - 2107.0 **Region 1 = MARITIME MOBILE + /FIXED/ + /LAND MOBILE/**
<483 484>
Regions 2 + 3 = MARITIME MOBILE <497 498>

2065.0	EQO	Nowshahr R, IRN	SSB	
	L..	many R stations, ARG	SSB	
2072.0	VTG 3	IN Bombay, IND	CW	
2075.0	OAJ 4	PIL Ilo R, PRU	SSB	
	S3K	Hiran Point Pilot R, BGD	SSB	
2079.0	LPW 6	Bahia Blanca R, ARG	SSB	
2080.0	A3A	Nuku'alofa R, TON	SSB	
	DZI	Bacoor R, PHL	CW	
	S3K	Hiran Point Pilot R, BGD	SSB	
2082.5	LPO 26	Puerto Deseado R, ARG	SSB	
2083.0	COB 4	Matanzas F R, CUB	SSB	
2085.0	VUJ 9	Bhavnagar Port R, IND	SSB	
	VWN	Cochin R, IND	SSB	
	VWO	Okha R, IND	SSB	
2086.0	LPL 6	General Pacheco R, ARG	SSB	
	OAF 4	PESROD Ilo R, PRU	SSB	
	PP.	many R stations, B	SSB	
	WCM	Withamsville R, OH, USA	SSB	
	WFN	Jeffersonville R, IN, USA	SSB	
	WGK	Saint Louis R, MO, USA	SSB	
2087.0	OSU	Oostende R, BEL	SSB	
2089.5	PP.	many R stations, B	SSB	
2090.0	OSU	Oostende R, BEL	SSB	
2090.9	LPZ 33	Trelew R, ARG	SSB	
2091.0	DS.	many F R stations, KOR	CW	
	HL.	many R stations, KOR	CW	
	J../5	many R stations, J	CW	
	6MA	Mosulpo F R, KOR	CW	
2093.0	EQN	Khomeini R, IRN	SSB	
	LPM 5	Mar del Plata R, ARG	SSB	
2094.0	C8R ..	many R stations, MOZ	SSB	
2096.5	PP.	many R stations, B	SSB	
2097.0	VWV	Vishakhapatnam R, IND	SSB	
	VWY	Porbandar R, IND	SSB	
2098.8	UBJ	Baku R, AZ, URS	SSB	QSX 2464.0 kHz

2099.0	UHZ	Kherson R, UK, URS	SSB	QSX 2525.0 kHz
2100.0	LPC 5	Ushuaia R, ARG	SSB	QSX 2100.0 kHz
2101.4	OCJ 2	CPV Callao R, PRU	SSB	
2103.0	VUJ 9	Bhavnagar Port R, IND	SSB	
2103.5	LPG 5	Rio Gallegos R, ARG	SSB	
2104.0	ZLC	Waitg. R, Chatham Is., NZL	SSB	
2104.9	OCJ 2	CPV Callao R, PRU	SSB	

2107.0 - 2160.0 **Region 1 = MARITIME MOBILE + /FIXED/ + /LAND MOBILE/**
<483 484>
Regions 2 + 3 = FIXED + MOBILE

2107.5	DSD	Yosu F R, KOR	CW	
2110.0	COB 60	Santa Cruz F R, CUB	SSB	
2111.0	3DP	Suva R, FJI	SSB	QSX 2162.0 kHz
2115.0	DS.	many F R stations, KOR	SSB	
	TXU	Saint-Pierre R, SPM	SSB	
	6M.	many F R stations, KOR	SSB	
		many F R stations, KOR	SSB	
2116.0	OXI	Nuuk R, GRL	SSB	
2117.0	T3C	Takaronga R, T. Atoll, KIR	SSB	
2120.0	YVG	La Guayra R, VEN	SSB	
2122.0	COB 21	Nueva Gerona F R, CUB	SSB	
2125.0	CWT	Puerto Montevideo R, URG	SSB	
2129.0	OXF	Qaqortoq R, GRL	SSB	QSX 1638.0 kHz
2130.0	9WW 20	Kuching R, Sarawak, MLA	SSB	
2132.0		Ponta Delgada Pilot R, AZR	SSB	
2134.0	VAZ 3	Canso Lock R, NS, CAN	SSB	
2137.5	WLC	Rogers City R, MI, USA	SSB	
2140.0	S3D	Chittagong R, BGD	SSB	
	S3E	Khulna R, BGD	SSB	
2144.4		ship stations	**QSX 3607.8 kHz (GHD)**	
2146.0		Castries Lighthouse R, LCA	SSB	
		Vieux Fort Lighth. R, LCA	SSB	
2150.0	FUE	FN Brest, F	CW	
	J../5	many R stations, J	SSB	
2153.0	ZLW	Wellington R, NZL	SSB	
		Port Gentil R, GAB	SSB	
		ship stations	**QSX 2727.0 kHz (DAN)**	
2157.5	HLC	Inchon R, KOR	CW	
	HLN	Kunsan R, KOR	CW	

2160.0 - 2170.0 **Region 1 = RADIOLOCATION <485 486 487 499>**
Regions 2 + 3 = FIXED + MOBILE

2160.0	4XT 2	Genosar R, ISR	SSB
	4XT 3	Tiberias R, ISR	SSB
	4XT 4	En-Gev R, ISR	SSB
2162.0	ZBP	Adamstown R, PTC	SSB
	ZMH ..	many Harbour R stns., NZL	SSB
2166.0		TOC P.-a-Pierre R, TRD	SSB
2167.0	H4H 4	Honiara R, SLM	SSB
2168.0	YJM	Port-Vila R, VUT	SSB

2170.0 - 2173.5 **MARITIME MOBILE**

2170.5	REGION 1	COAST STATIONS CALLING FREQ.	SSB

2173.5 - 2190.5 MOBILE (distress and calling) <500 500A 500B 501>

2174.5	**WORLDWIDE**	**NBDPT DISTRESS AND SAFETY F.**	
2177.0	**WORLDWIDE**	**COAST STATIONS AND INTERSHIP DSC CALLING FREQUENCY**	
2182.0	**WORLDWIDE**	**CALLING/DISTRESS/SAFETY F.**	SSB
2187.5	**WORLDWIDE**	**DSC DISTRESS AND SAFETY F.**	
2189.5	**WORLDWIDE**	**SHIP STATIONS DSC CALLING F.**	

2190.5 - 2194.0 MARITIME MOBILE

2191.0	REGION 1	SHIP STATIONS CALLING FREQ.	SSB
	HLY	Yosu R, KOR	SSB
	YU.	many R stations, YUG	SSB
	9MG 20	Georgetown R, Pin. I., MLA	SSB
	9MK 5	Kuantan R, MLA	SSB
	9MP 5	Kelang R, MLA	SSB
2192.0	9PA	Banana R, ZAI	SSB

2194.0 - 2300.0 Region 1 = FIXED + MOBILE except aeronautical mobile (R)

<484 495 505>

Regions 2 + 3 = FIXED + MOBILE <502>

2195.5	**DHM 44**	**Grengel Meteo, D**	**100 Bd: 1944+2058 wx**	
	WLC	*Rogers City R, MI, USA*	*FAX 120/576: 0630 weather charts, 0930 MAFOR*	
2197.0	5AT	Tripoli R, LBY	SSB	
2197.5	FJP 2	Noumea R, NCL	SSB	
	'91 HGN'	**SN Cadiz, E**	**75 Bd: 2224 ry**	
2198.0	CLT 3	Nueva Gerona F R, CUB	SSB	QSX 2073.0 kHz
2200.0	9KK	Safat R, KWT	SSB	
2201.0	C2N	Makwa R, NRU	SSB	
	P2M	Port Moresby R, PNG	SSB	
	P2R	Rabaul R, PNG	SSB	
	VI.	many R stations, AUS	SSB	
2206.0	COB 35	Batabano F R, CUB	SSB	
	OCJ 2	CPV Callao R, PRU	CW	
	5WA	Apia R, SMO	SSB	
2207.0	ZKN	Alofa R, NIU	SSB	
	ZKR	Avarua R, Rarotg. I., CKH	SSB	
	ZLD	Auckland R, NZL	SSB	
2209.0	**DHJ 51**	**Grengel Meteo, D**	**100 Bd: 0412+1942 wx**	
2210.0	OYR	Aasiat R, GRL	SSB	QSX 1638.0 kHz
	3VB	Bizerte R, TUN	SSB	
2211.0	IQQ	Mazara del Vallo R, I	SSB	QSX 2023.0 kHz
2216.5		Roseau Port R, DMA	SSB	
2221.0	YUS	Split R, YUG	SSB	
	YUX	Dubrovnik R, YUG	SSB	
	3VP	Sakhira R, TUN	SSB	
2225.0	OXI	Nuuk R, GRL	SSB	QSX 1638.0 kHz
	OXM	Ittoqqorttoormiit R, GRL	SSB	QSX 1665.0 kHz
2226.5	CW./..	many UN stations, URG	SSB	
2230.0	OAQ 4	PDH Paita R, PRU	SSB	
	YKI	SCOTC Tartus R, SYR	SSB	
2235.0	OAO 4	MINERVA Lima R, PRU	SSB	
2237.0	VAZ 3	Canso Lock R, NS, CAN	SSB	
2250.0	OZL	Ammassalik R, GRL	SSB	QSX 1638.0 kHz
2253.0	OSU	Oostende R, BEL	SSB	

2256.0	OSU	Oostende R, BEL	SSB	
2260.0	VJN	RFDS Cairns, QLD, AUS	SSB	
2264.0	ULL	Nikolay.-na-A. R, FE, URS	SSB	
	UQC	Korsakov R, FE, URS	SSB	
2265.0	OXF	Qaqortoq R, GRL	SSB	QSX 1665.0 kHz
	OYR	Aasiat R, GRL	SSB	QSX 1638.0 kHz
2268.0		Samch'onp F R, KOR	SSB	
2270.0	XF.	many R stations, MEX	SSB	
2279.0	**LRN 62**	**DyN Buenos Aires, ARG**	**0000+0100 S nx**	
2280.0	VJK	RFDS Meekath., WA, AUS	SSB	
	VJT	RFDS Carnarvon, WA, AUS	SSB	
	VKL	RFDS Port Hedl., WA, AUS	SSB	
2282.0	ZA.	many R stations, ALB	SSB	
2284.0	HLC	Inchon R, KOR	SSB	QSX 2312.0 kHz
2284.5		Roseau Port R, DMA	SSB	
2291.0	IDQ	IN Rome, I	CW	
2292.0		AMOCO Galeota R, TRD	SSB	
2293.9		**München, D**	**VFT: ARQ-E 72 Bd: 0300 msg [BRVHF]**	
2295.0	VTP 3	IN Vishakhapatnam, IND	CW	
2296.4	**DER**	**MOI Bonn, D**	**ARQ-E 72 Bd: 0600 opening msg to various LKAs**	

2300.0 - 2495.0

Region 1 = BROADCASTING + FIXED + MOBILE except aeronautical mobile (R) <495 503>

Regions 2 + 3 = BROADCASTING + FIXED + MOBILE <503>

2304.0	OYR	Aasiat R, GRL	SSB	
2306.0		Libreville Port R, GAB	SSB	
2309.0	WDU 23	Kodiak R, ALS	SSB	QSX 2131.0 kHz
2312.0	WDU 26	Cordova R, ALS	SSB	QSX 2134.0 kHz
	WGG 53	Cold Bay R, ALS	SSB	QSX 2134.0 kHz
2315.0	COB 20	La Coloma F R, CUB	SSB	
	COB 22	Arroyos de Mnt. F R, CUB	SSB	
2320.0	TYA	Cotonou R, BEN	SSB	
	XF.	many R stations, MEX	SSB	
	5AT	Tripoli R, LBY	SSB	
2321.0		Cotonou Port R, BEN	SSB	
		Port Gentil Port R, GAB	SSB	
2327.0		Castries Lighthouse R, LCA	SSB	
2332.5	HLP	Pusan R, KOR	CW	
2341.0	D4D	Praia R, Santiago, CPV	SSB	
2342.5	*DHJ 51*	*Grengel Meteo, D*	*FAX $*	
2352.5	ASK	Karachi R, PAK	SSB	
2357.0	HLM	Mokp'o R, KOR	SSB	QSX 2312.0 kHz
2357.5	OUA 32	DM Stevns, DNK	CW	
2370.0	A7S	GULPECO Doha R, QAT	SSB	
	A7S 31	Halul Island R, QAT	SSB	
2373.0	OSU	Oostende R, BEL	SSB	
2376.0	OSU	Oostende R, BEL	SSB	
2381.0		Castries Lighthouse R, LCA	SSB	
		Vieux Fort Lighth. R, LCA	SSB	
2385.7		**Düsseldorf, D**	**VFT: ARQ-E 96 Bd: 0542 final msg to Bonn "qsu/qsw -tag-schalten", s. off [NWVHF]**	
2394.0	7TB	Annaba R, ALG	SSB	
2397.0	WDU 26	Cordova R, ALS	SSB	QSX 2237.0 kHz
	WGG 56	Ketchikan R, ALS	SSB	QSX 2237.0 kHz
2398.0		AMOCO Galeota R, TRD	SSB	

2400.0	OVC	DM Groennedal, GRL	SSB	
	OXI	Nuuk R, GRL	SSB	QSX 1638.0 kHz
	WDU 29	Sitka R, ALS	SSB	QSX 2134.0 kHz
	WGG 58	Juneau R, ALS	SSB	
	WKR	Nome R, ALS	SSB	QSX 2240.0 kHz
	ZA.	many R stations, ALB	SSB	QSX 2525.0 kHz
2405.0	6MC	Guryongpo F R, KOR	SSB	
2406.0	COB 5	Casilda F R, CUB	SSB	
	COB 41	Cienfuegos F R, CUB	SSB	
		TOC P.-a-Pierre R, TRD	SSB	
2408.0	**DHJ 51**	**Grengel Meteo, D**	**100 Bd: 2113 wx**	
2410.0	TXU	Saint-Pierre R, SPM	SSB	
2416.0		Abidjan F R, CTI	SSB	
2418.0	5AT	Tripoli R, LBY	SSB	
		many Pilot R stations, FNL	SSB	
2419.0	CLM	Santiago de Cuba R, CUB	SSB	QSX 2107.0 kHz
2422.5	*LOK*	*AN Laurie Island, Orcadas, ATA*	*FAX 120/576: 0300+0315+1700+1715 analysis*	
2423.0	ZLB	Awarua R, NZL	SSB	
2423.5	**SAB**	**Goeteborg R, S**	**SITOR-A: 24 h tts; QSX 3267.5 kHz** **SITOR-B: 1700 Swedish nx**	
2431.0	XF.	many R stations, MEX	SSB	
2433.0	HLP	Pusan R, KOR	SSB	QSX 2319.0 kHz
2438.0	DSQ	Inchon F R, KOR	SSB	
	6MA	Mosulpo F R, KOR	SSB	
2439.0	D4A	Mindelo R, Sao Vicente, CPV	SSB	
	D4D	Praia R, Santiago, CPV	SSB	
2442.0	WOM	Pennsuco R, FL, USA	SSB	
2449.0	DSR 52	Geojin F R, KOR	SSB	
	6MM	Masan F R, KOR	SSB	
		Taeha-dong F R, U.d.l., KOR	SSB	
2450.0	KMI	Dixon R, CA, USA	SSB	QSX 2100.0 kHz
	KQP	Galveston R, TX, USA	SSB	QSX 2366.0 kHz
	UFO	Kholmsk R, FE, URS	SSB	
2457.5	AQP 2	PN Karachi, PAK	CW	
2458.0	VAE	CCG Tofino, BC, CAN	SSB	QSX 2340.0 kHz
	VAF	CCG Alert Bay, BC, CAN	SSB	QSX 2340.0 kHz
	VAK	CCG Victoria, BC, CAN	SSB	QSX 2340.0 kHz
2460.0	HLP	Pusan R, KOR	SSB	QSX 2312.0 kHz
	UDH	**Riga R, LA, URS**	**SITOR-A: 1443-0749 R tts wtsca** CW	
2464.0	UFF	Sukhumi R, GE, URS	SSB	
2466.0	WFA	Tampa R, FL, USA	SSB	QSX 2009.0 kHz
2470.0	XF.	many R stations, MEX	SSB	
2474.0	**PBC 32**	**DN Goeree Island, NLD**	**75 Bd: 1553-0749 ry**	
2480.0		Taharoa Harbour R, NZL	SSB	
2481.0	OSU	Oostende R, BEL	SSB	
	'F'	Bcn. Vladivostok, SE, URS	CW	
2484.0	OSU	Oostende R, BEL	SSB	
2485.5		**ship stations**	**QSX 1709.5 kHz (OFA)**	
2490.0	WOM	Pennsuco R, FL, USA	SSB	
2494.7		**ship stations**	**QSX 2832.7 kHz (GNK)**	

2495.0 - 2498.0

Region 1 = BROADCASTING + FIXED + MOBILE except aeronautical mobile (R) <495 503>
Regions 2 + 3 = STANDARD FREQUENCY AND TIME SIGNAL

2496.3	ship stations	QSX 3607.3 kHz (GKZ)
2496.8	ship stations	QSX 1672.0 kHz (GKR)
2497.3	ship stations	QSX 3608.3 kHz (GCC)
2497.8	ship stations	QSX 2696.7 kHz (GLD)

2498.0 - 2501.0

STANDARD FREQUENCY AND TIME SIGNAL

2500.0	FFH	Paris TS, F	CW
	HLA	Taejon TS, KOR	COMB
	JJY	Tokyo TS, J	COMB
	RCH	Tashkent TS, UZ, URS	CW
	WWV	Fort Collins TS, CO, USA	COMB
	WWVH	Kihei TS, Maui Island, HWA	COMB

2501.0 - 2502.0

STANDARD FREQUENCY AND TIME SIGNAL + Space Research

2502.0 - 2505.0

Region 1 = FIXED + Mobile except aeronautical mobile (R) <484 495 504>
Regions 2 + 3 = STANDARD FREQUENCY AND TIME SIGNAL

2505.0 - 2625.0

Region 1 = FIXED + MOBILE except aeronautical mobile (R) <484 495 504>
Regions 2 + 3 = FIXED + MOBILE

2506.0	EQI	Abbas R, IRN	SSB	
	EQK	Koramshahr R, IRN	SSB	
	FJY 4	Martin de Vivies R, AMS	SSB	QSX 2620.0 kHz
	KGN	Delcambre R, LA, USA	SSB	QSX 2458.0 kHz
	KMI	Dixon R, CA, USA	SSB	
	WAH	Saint Thomas R, VIR	SSB	QSX 2009.0 kHz
		TOC P.-a-Pierre R, TRD	SSB	
2507.0	HLN	Kunsan R, KOR	SSB	QSX 2312.0 kHz
2507.5	EQZ	IORC Abadan R, IRN	CW/SSB	
2507.7	HPP 20	Panama R, PNR	SSB	
2511.0	5OZ 22	Port Harcourt R, NIG	SSB	
2512.5	JYO	Aqaba R, JOR	SSB	
2513.0	5AB	Benghazi R, LBY	SSB	
2514.0	V..	many CCG stations, CAN	SSB	QSX 2118.0 kHz
	WBL	Buffalo R, NY, USA	SSB	QSX 2118.0 kHz
	WLC	Rogers City R, MI, USA	SSB	QSX 2118.0 kHz
	WOM	Pennsuco R, FL, USA	SSB	
2517.0	6MD	Kunsan F R, KOR	SSB	
	6MJ	Bangeojin F R, KOR	SSB	
2521.1	DSD	Yosu F R, KOR	SSB	
	DSQ	Inchon F R, KOR	SSB	
	DSV	Fupo F R, KOR	SSB	
	6MA	Mosulpo F R, KOR	SSB	
	6MN	Sokcho F R, KOR	SSB	
		Donghae F R, KOR	SSB	
		Samch'onp F R, KOR	SSB	

2521.1		Taeha-dong F R, U.d.l., KOR	SSB	
2522.0	CLK 2	Santa Cruz del Sur R, CUB	SSB	
	C6N 2	Nassau R, BAH	SSB	QSX 2126.0 kHz
2525.0	UWT	Taganrog R, UK, URS	SSB	
2527.0		Castries Lighthouse R, LCA	SSB	
		Vieux Fort Lighth. R, LCA	SSB	
2530.0	DSD	Yosu F R, KOR	SSB	
	DSR 52	Geojin F R, KOR	SSB	
	KQP	Galveston R, TX, USA	SSB	QSX 2134.0 kHz
	VCA	CCG Charlottet., PEI, CAN	SSB	QSX 2815.0 kHz
	VCO	CCG Sydney, NS, CAN	SSB	QSX 2815.0 kHz
	WCT	Loiza R, PTR	SSB	QSX 2134.0 kHz
	6MB	Jumunjin F R, KOR	SSB	
2535.0		**ship stations**	**QSX 2795.0 kHz (UAH)**	
2537.0	DSC	Mokp'o F R, KOR	SSB	
	DSV	Fupo F R, KOR	SSB	
2538.0	CFW	Vancouver R, BC, CAN	SSB	QSX 2015.0 kHz
	KCC	Corpus Christi R, TX, USA	SSB	QSX 2142.0 kHz
	V..	many CCG stations, CAN	SSB	
		ship stations	**QSX 2727.0 kHz (DAN)**	
2542.0	XF.	many R stations, MEX	SSB	
2545.0	FFP	Fort de France R, MRT	SSB	
2547.0	VRT	Hamilton R, BER	SSB	
2550.0	DSR 52	Geojin F R, KOR	SSB	
	PJC	Willemst. R, Curacao, ATN	SSB	QSX 2158.0 kHz
	UHO 2	Yuzhno-S. Meteo, FE, URS	CW	
	VRT	Hamilton R, BER	SSB	
	WBL	Buffalo R, NY, USA	SSB	QSX 2158.0 kHz
	WFA	Tampa R, FL, USA	SSB	QSX 2158.0 kHz
	WLC	Rogers City R, MI, USA	SSB	QSX 2158.0 kHz
	6MK	Chungmu F R, KOR	SSB	
2555.0	8RB	Demerara R, GUY	SSB	
2558.0	CFW	Vancouver R, BC, CAN	SSB	QSX 2142.0 kHz
	C6N 2	Nassau R, BAH	SSB	QSX 2198.0 kHz
	VFA	CCG Inuvik, NWT, CAN	SSB	QSX 2142.0 kHz
	VFC	CCG Cambr. B., NWT, CAN	SSB	QSX 2142.0 kHz
	8RB	Demerara R, GUY	SSB	
		TOC P.-a-Pierre R, TRD	SSB	
2560.0	DSD	Yosu F R, KOR	CW	
	HLY	Yosu R, KOR	CW	
	UCV 2	Okhotsk R, FE, URS	CW	
	XF.	many R stations, MEX	SSB	
2566.0	WOM	Pennsuco R, FL, USA	SSB	
2572.0	WLO	Mobile R, AL, USA	SSB	QSX 2430.0 kHz
2574.0	YUR	Rijeka R, YUG	SSB	
2575.0	C9L 2	Maputo R, MOZ	SSB	
2576.0	SUH	Alexandria R, EGY	SSB	
2579.0	IPB	Bari R, I	SSB	QSX 2023.0 kHz
	5RO	Mahajanga R, MDG	SSB	
	5RT	Toliara R, MDG	SSB	
		Manakara Sud R, MDG	SSB	
2580.0	UJY	Kaliningrad R, RU, URS	SSB	
		Lequeitio R, E	SSB	
2581.0	CUL	Lisbon R, POR	SSB	
2581.6	HAR 6	Budapest R, HNG	SSB	
2582.0	CLT	Habana R, CUB	SSB	
	C6X 2	Marsh Harbour R, BAH	SSB	QSX 2166.0 kHz
	TXU	Saint-Pierre R, SPM	SSB	
	V..	many CCG stations, CAN	SSB	QSX 2206.0 kHz
	WBL	Buffalo R, NY, USA	SSB	QSX 2206.0 kHz

2582.0	WLC	Rogers City R, MI, USA	SSB	QSX 2206.0 kHz
	ZBM	St. George's Harb. R, BER	SSB	
	8PO	Bridgetown R, BRB	SSB	
		Castries Lighthouse R, LCA	SSB	
		English Harbour R, ATG	SSB	QSX 2750.0 kHz
		Vieux Fort Lighth. R, LCA	SSB	
2583.0	DS.	many F R stations, KOR	CW	
	HL.	many R stations, KOR	CW	
	OMC	Bratislava R, TCH	SSB	
	OMK	Komarno R, TCH	SSB	
	6MA	Mosulpo F R, KOR	CW	
2585.0	UCD 9	Yalta R, UK, URS	SSB	QSX 2100.0 kHz
	WAH	Saint Thomas R, VIR	SSB	
	YUR	Rijeka R, YUG	SSB	
2586.0	CNP	Casablanca R, MRC	SSB	
	J2A	Jibuti R, DJI	SSB	
	OYE	Roenne R, DNK	SSB	QSX 1995.0 kHz
	TRA	Libreville R, GAB	SSB	
	TUA	Abidjan R, CTI	SSB	
	TYA	Cotonou R, BEN	SSB	
	3XC 5	Conakry R, GUI	SSB	
	3XO 5	Kamsar R, GUI	SSB	
	5VA	Lome R, TGO	SSB	
	6VA	Dakar R, SEN	SSB	
	7TO	Oran R, ALG	SSB	
		Arrecife R, E	SSB	QSX 3231.0 kHz
		Kaolack R, SEN	SSB	
		Machichaco R, E	SSB	QSX 3283.0 kHz
2587.0	6YI	Kingston R, JMC	SSB	
2590.0	CGA 266	Prince Rupert R, BC, CAN	SSB	QSX 2166.0 kHz
	DSQ	Inchon F R, KOR	CW	
	EJK	Valentia R, IRL	SSB	
	HLC	Inchon R, KOR	CW	
	RTEU	Aleksandrov-S. R, FE, URS	CW	
	SVN	Athens R, GRC	SSB	
	6YI	Kingston R, JMC	SSB	
2591.0	IPL	Livorno R, I	SSB	
2593.0	CND	Agadir R, MRC	SSB	
	EJM	Malin Head R, IRL	SSB	
	OXB	Blaavand R, DNK	SSB	QSX 3245.0 kHz
	ZSA 26	Cape Agulhas R, AFS	SSB	QSX 2016.0 kHz
	ZSE 26	East London R, AFS	SSB	QSX 2016.0 kHz
	ZSL 25	Lüderitz R, NMB	SSB	
	ZSM 26	Cape Columbine R, AFS	SSB	QSX 2016.0 kHz
	ZSN	Cape Town R, AFS	SSB	
	ZSV 26	Walvis Bay R, NMB	SSB	
2595.0	DSB	Pusan F R, KOR	SSB	
	S7Q	Victoria R, Mahe, SEY	SSB	
	UGE	Arkhangelsk R, RU, URS	SSB	QSX 2100.0 kHz
	UOY	Nar'yan Mar R, RU, URS	SSB	
	5ZF	Mombasa R, KEN	SSB	
	7OA	Aden R, YEM	SSB	
2596.0		La Coruna R, E	SSB	QSX 3290.0 kHz
2598.0	V..	many CCG stations, CAN	SSB	
2600.0	FFD	Saint Denis R, REU	SSB	
	IQQ	Mazara del Vallo R, I	SSB	QSX 2023.0 kHz
	PCG	Scheveningen R, NLD	SSB	QSX 1995.0 kHz
	TFX	Siglufjoerdur R, ISL	SSB	
	XFA	Acapulco R, MEX	SSB	QSX 2622.0 kHz
	XSV	Tianjin R, CHN	SSB	

2600.0		Donghae F R, KOR	SSB	
2601.0	A7D	Doha R, QAT	SSB	
	C8R ..	many R stations, MOZ	SSB	
	C9C 8	MN Maputo, MOZ	SSB	
	C9C 9	MN Nacala, MOZ	SSB	
	C9C 20	MN Pemba, MOZ	SSB	
	D3E	Luanda R, AGL	SSB	QSX 2464.0 kHz
	D4A	Mindelo R, S. Vicente, CPV	SSB	
	ZLW	Wellington R, NZL	SSB	QSX 2474.0 kHz
2604.0	A4M	Muscat R, OMA	SSB	
	GKR	Wick R, G	SSB	
2605.0	UIK	Vladivostok R, SE, URS	SSB	QSX 2720.0 kHz
2606.0	EAT	Tenerife R, CNR	SSB	QSX 3283.0 kHz
2607.0	A4M	Muscat R, OMA	SSB	
	A9M	Hamala R, BHR	SSB	
	FUO	FN Toulon, F	CW	
	GPK	Portpatrick R, G	SSB	
	SVK	Kerkyra R, GRC	SSB	
	ZSL 26	Lüderitz R, NMB	SSB	
	ZSV 6	Walvis Bay R, NMB	SSB	
	ZS. ..	many R stations, AFS	SSB	QSX 2023.0 kHz
2610.0	EAC	Tarifa R, E	SSB	QSX 3290.0 kHz
	XSG	Shanghai R, CHN	SSB	
2611.0	DAN	Norddeich R, D	SSB	QSX 2020.0 kHz
2612.5	JYO	Aqaba R, JOR	SSB	
2614.0	DAN	Norddeich R, D	SSB	QSX 2023.0 kHz
	EJK	Valentia R, ISL	SSB	
2615.0	YU.	many R stations, YUG	SSB	
2616.0	KUP 65	Majuro R, MRL	SSB	
	KUP 6.	many R stations, CAR	SSB	
2618.5	*GFE 25*	*Bracknell Meteo, G*	*FAX $*	
2620.0	FJA	Papeete R, Tahiti, OCE	SSB	
	XSQ	Guangzhou R, CHN	SSB	
	9MK 7	Kuantan R, MLA	SSB	QSX 2830.0 kHz
2621.0	SAC	Trelleborg R, S	SSB	QSX 3185.0 kHz
2622.5	**DHJ 51**	**Grengel Meteo, D**	**0600 + 1721 wx**	
2624.0	IQX	Trieste R, I	SSB	
	SVR	Rhodes R, GRC	SSB	

2625.0 - 2650.0   Region 1 = MARITIME MOBILE + MARITIME RADIONAVIGATION

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Regions 2 + 3 = FIXED + MOBILE

2625.0	GKR	Wick R, G	SSB	
	URD	Leningrad R, RU, URS	SSB	
	9HD	Valetta R, MLT	SSB	
2627.0	XSU	Yantai R, CHN	SSB	
	Y5M	Rügen R, D	SSB	
2628.0	*AXM 31*	*Canberra Meteo, ACT, AUS*	*FAX $*	
	FFM	Marseille R, F	SSB	
	GNI	Niton R, G	SSB	
	IQA	Augusta R, I	SSB	QSX 2023.0 kHz
	TFV	Vestmannaeyjar R, ISL	SSB	QSX 2525.0 kHz
2629.0	HSP 3	Phuket R, THA	SSB	
	TAI	Iskenderun R, TUR	SSB	
2630.0	Y5M	Rügen R, D	SSB	
	5OZ 22	Port Harcourt R, NIG	SSB	
2632.0		San Fernando R, E	SSB	
2635.0	REGIONS 2 + 3 INTERSHIP WORKING FREQ.		SSB	

2635.0	CND 3	Safi R, MRC	SSB	
	CNW	Tanger R, MRC	SSB	
	HPQ 21	Panama Port R, PNR	SSB	
	IQH	Napoli R, I	SSB	QSX 2023.0 kHz
	LFO	Oerlandet R, NOR	SSB	QSX 2118.0 kHz
	LGH	Harstad R, NOR	SSB	QSX 2118.0 kHz
	LGZ	Farsund R, NOR	SSB	QSX 2118.0 kHz
		Salalah Port R, OMA	SSB	QSX 2023.5 kHz
2638.0	REGIONS 2 + 3 INTERSHIP WORKING FREQ.		SSB	
	CW. ..	many UN stations, URG	SSB	
	DZK 3	Manila R, PHL	SSB	
	HIA	Sto. Domingo Pilot R, DOM	SSB	
	KUQ	Pago Pago R, SMA	SSB	
	LZL	Bourgas R, BUL	SSB	
	L3V	Rio de la Plata R, ARG	SSB	
	OBB 4	Ilo R, PRU	SSB	
	OBF 4	Mollendo R, PRU	SSB	
	OBZ 3	Chimbote R, PRU	SSB	
	VAZ 3	Canso Lock R, NS, CAN	SSB	
		Castries Lighthouse R, LCA	SSB	
		TOC P.-a-Pierre R, TRD	SSB	
		Vieux Fort Lighth. R, LCA	SSB	
		Zanzibar R, TZA	SSB	
2638.9	LGZ	Farsund R, NOR	SSB	QSX 2121.9 kHz
2639.0	SPS	Witowo R, POL	SSB	QSX 2090.0 kHz
2641.0	ODR 6	Beirut R, LBN	SSB	
2642.0	ICB	Genova R, I	SSB	
	J5M	Bissau R, GNB	SSB	
	LGP	Bodoe R, NOR	SSB	QSX 2125.0 kHz
	LGV	Vardoe R, NOR	SSB	QSX 2125.0 kHz
	LGZ	Farsund R, NOR	SSB	QSX 2125.0 kHz
2644.0	YKI	SCOTC Tartus R, SYR	SSB	
2645.0	D4A	Mindelo R, S. Vicente, CPV	CW	
	OMC	Bratislava R, TCH	CW/SSB	
	OMK	Komarno R, TCH	CW/SSB	
2649.0	EAS	Cabo Penas R, E	SSB	QSX 3231.0 kHz
	LGH	Harstad R, NOR	SSB	QSX 2045.0 kHz
	LGL	Floroe R, NOR	SSB	QSX 2132.0 kHz
	TKM	Grasse R, F	SSB	
	4XA	Elat R, ISR	SSB	
	4XO	Haifa R, ISR	SSB	

2650.0 - 2850.0 **Region 1 = FIXED + MOBILE except aeronautical mobile (R)**
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Regions 2 + 3 = FIXED + MOBILE

2650.0		Abidjan F R, CTI	SSB	
2652.0	5RN	Nosy Be R, MDG	SSB	
	5TA	Nouadhibou R, MTN	SSB	
		Mananjary R, MDG	SSB	
		Morondava R, MDG	SSB	
		Port Gentil Port R, GAB	SSB	
2652.9	LGQ	Rogaland R, NOR	SSB	QSX 2135.9 kHz
2653.0	XVR 4	Vung Tau R, VTN	SSB	
2654.0		Libreville Port R, GAB	SSB	
2655.0	XFF	Coatzacoalcos R, MEX	SSB	QSX 2165.0 kHz
2656.0	A9M	Hamala R, BHR	SSB	
	IPA	Ancona R, I	SSB	QSX 2023.0 kHz
	LGP	Bodoe R, NOR	SSB	QSX 2139.0 kHz

2656.0	LGQ	Rogaland R, NOR	SSB	QSX 2139.0 kHz
	LGV	Vardoe R, NOR	SSB	QSX 2139.0 kHz
	VJQ	RFDS Kalgoorlie, WA, AUS	SSB	
	4XA	Elat R, ISR	SSB	
2657.0	CT.	many PN stations	SSB	
2660.0	XF. .	many PEMEX R stns., MEX	SSB	
2662.0	YKO	Tartus R, SYR	SSB	
	Y5M	Rügen R, D	SSB	
2663.0	CNP	Casablanca R, MRC	SSB	
	FJN	Dzaoudzi R, MYT	SSB	
	IPC	Crotone R, I	SSB	QSX 2023.0 kHz
	LGA	Alesund R, NOR	SSB	QSX 1632.5 kHz
	LGH	Harstad R, NOR	SSB	QSX 1632.5 kHz
	LGT	Tjoeme R, NOR	SSB	QSX 2045.0 kHz
		Antalaha R, MDG	SSB	
2665.0	XFK	La Paz R, MEX	SSB	QSX 2160.0 kHz
	Y5M	Rügen R, D	SSB	QSX 1960.0 kHz
2666.0	UMN	Murmansk R, RU, URS	SSB	
2666.9	LGN	Bergen R, NOR	SSB	QSX 2086.9 kHz
2667.0	GHD	Gallan Head R, G	SSB	
2670.0	COB 36	Flota Cubana F R, CUB	SSB	
	COB 61	Ciego de Avila F R, CUB	SSB	
	LGD	Oerlandet R, NOR	SSB	QSX 2090.0 kHz
	LGN	Bergen R, NOR	SSB	QSX 2090.0 kHz
	LGV	Vardoe R, NOR	SSB	QSX 2045.0 kHz
	NMC	USCG S. Franc., CA, USA	SSB	
	NMJ 2	USCG Ketchikan, ALS	SSB	
	NMO	USCG Honolulu, HWA	SSB	
	NM./..	many USCG stations	CW	
	NOJ	USCG Kodiak, ALS	SSB	
	NRV	USCG Apra Harbour, GUM	SSB	
	TAH	Istanbul R, TUR	SSB	
	TAR	Zonguldak R, TUR	SSB	
	UNI	Ventspils R, LA, URS	SSB	
	YU.	many R stations, YUG	SSB	
	3VT	Tunis R, TUN	SSB	
	5BA	Nicosia R, CYP	SSB	
2677.0		many Cross R stations, F	SSB	
2679.0		Cabo de Gata R, E	SSB	QSX 3283.0 kHz
2680.0	S9M	Sao Tome R, STP	SSB	
	9MG 4	Georgetown R, Pin. I., MLA	SSB	
2680.5	DHJ 59	GN Wilhelmshaven, D	CW	
2683.0	IDC	Cagliari R, I	SSB	
	9HA	**Luqa Air, MLT**	**1940 ry**	
2684.0	GKZ	Humber R, G	SSB	
2685.0	XFM	Manzanillo R, MEX	SSB	QSX 2290.0 kHz
	YU.	many R stations, YUG	SSB	
2686.0	HSA 6	Bangkok R, THA	SSB	
2690.0	PK. ..	many R stations, INS	SSB	QSX 2090.0 kHz
2691.0	**DHJ 51**	**Grengel Meteo, D**	**100 Bd: 1739-0856 ry or wx**	
	FFU	Brest - Le Conquet R, F	SSB	
	GND	Stonehaven R, G	SSB	
	7TA	El Djaza'ir R, ALG	SSB	
2693.0	TAL	Antalya R, TUR	SSB	
2694.0	CLK	Nuevitas R, CUB	SSB	
	CLT 3	Nueva Gerona F R, CUB	SSB	QSX 2760.0 kHz
	CUL	Lisbon R, POR	SSB	
	9MP 7	Kelang R, MLA	SSB	
2695.0	LGI	Hammerfest R, NOR	SSB	QSX 1657.5 kHz
	LGP	Bodoe R, NOR	SSB	QSX 1657.5 kHz

2695.0	URL	Sevastopol' R, UK, URS	SSB
		Potsdam Meteo, D	**100 Bd: 0014+0308+0409+1943 wx**
2696.0	XVG 4	Hai Phong R, VTN	SSB
2696.7	**GLD**	**Land's End R, G**	**SITOR-A: 24 h tts; QSX 2497.8 kHz** CW
2698.0	GNF	North Foreland R, G	SSB
	ICZ	Venezia R, I	SSB QSX 2023.0 kHz
2699.0	HLP	Pusan R, KOR	SSB QSX 2385.0 kHz
2699.4		**PN Porto Santo, MDR**	**75 Bd: 0300 tfc list to CTAE**
2700.0	TFM	Neskaupstadur R, ISL	SSB QSX 2002.0 kHz
	5BA	Nicosia R, CYP	SSB QSX 4079.0 kHz
2705.0	GKR	Wick R, G	SSB
	TNA	Pointe-Noire R, COG	SSB
2707.0		Barcelona R, E	SSB QSX 3290.0 kHz
2710.0	IPD	Civitavecchia R, I	SSB
	XFY	Guaymas R, MEX	SSB QSX 2255.0 kHz
	XSR	Haikou R, CHN	SSB
	9LL	Freetown R, SRL	SSB
2711.0	CLT	Habana R, CUB	SSB
2712.0	5RD	Tolanaro R, MDG	SSB
	5RL	Antseranana R, MDG	SSB
		Maintirano R, MDG	SSB
2714.0	EAB	Bagur R, E	SSB QSX 3283.0 kHz
2716.0	**SAB**	**Goeteborg R, S**	**SITOR-A: 1730-0729 tts**
	ZSL 27	Lüderitz R, NMB	SSB
	ZS. ..	many R stations, AFS	SSB QSX 2049.0 kHz
2719.0	GCC	Cullercoats R, G	SSB
	GLD	Land's End R, G	SSB
	HSP 4	Phuket R, THA	SSB
	SPS	Witowo R, POL	SSB
	3VS	Sfax R, TUN	SSB
	7TO	Oran R, ALG	SSB
2720.0	*RDE 73*	*Kuybishev Meteo, RU, URS*	*FAX 60/576: 0515 chart Black Sea - Caspian Sea area*
	UBC 7	Uglegorsk R, FE, URS	SSB
	UQX 2	Poronaysk R, FE, URS	SSB
2721.0	**EBC**	**SN Cadiz, E**	**75 Bd: 2015 wx**
2721.5	CWC ..	many UN stations, URG	SSB
2722.0	ICB	Genova R, I	SSB QSX 2023.0 kHz
	XFB	Ciudad del Carmen R, MEX	SSB QSX 2255.0 kHz
2723.0	8PO	Bridgetown R, BRB	SSB
2723.6	DSR 52	Geojin F R, KOR	SSB
	6MN	Sokcho F R, KOR	SSB
2724.0	KUP 65	Majuro R, MRL	SSB
	KUP 6.	many R stations, CAR	SSB
	TFZ	Isafjoerdur R, ISL	SSB QSX 2023.0 kHz
2725.0	IDQ	IN Rome, I	CW
	XFE	Ensenada R, MEX	SSB
	XFN	Progreso R, MEX	SSB QSX 2555.0 kHz
	XFP	Chetumal R, MEX	SSB QSX 2255.0 kHz
2726.0	FFU	Brest - Le Conquet R, F	SSB
	SPC	Gdynia R, POL	SSB QSX 2090.0 kHz
2727.0	**DAN**	**Norddeich R, D**	**SITOR-A: 1600 tts; QSX 2153.0/2538.0 kHz**
2730.0	SVL	Limnos R, GRC	SSB
	ZAD	Durres R, ALB	SSB
2733.0	GNF	North Foreland R, G	SSB
	SAH	Härnösand R, S	SSB QSX 2216.0 kHz

2733.0	5RS	Toamasina R, MDG	SSB	
2735.0	DSB	Pusan F R, KOR	CW	
	9YL	North Post R, TRD	SSB	
		AMOCO Galeota R, TRD	SSB	
2738.0	CBV 3	DGTMMM Hanga R. R, PAQ	SSB	
	CB./..	many DGTMMM R st., CHL	SSB	
	CLO	Habana R, CUB	SSB	
	COB 8	Santiago de Cuba F R, CUB	SSB	
	CWC 39	UN Montevideo, URG	SSB	
	HI./..	many Pilot R stations, DOM	SSB	
	HPQ 21	Panama Port R, PNR	SSB	
	OBC 3	Callao R, PRU	SSB	
	OBF 4	Mollendo R, PRU	SSB	
	OBY 2	Paita R, PRU	SSB	
	6YX	JCG Kingston, JMC	SSB	
		AMOCO Galeota R, TRD	SSB	
		Port-au-Prince R, HTI	SSB	
2740.0	FFO	Saint Nazaire R, F	SSB	
	HPP 20	Panama R, PNR	SSB	
	OXP	Skagen R, DNK	SSB	QSX 3259.0 kHz
2742.0	CUG	Ponta Delgada R, AZR	SSB	
2745.0	XFQ	Salina Cruz R, MEX	SSB	QSX 2160.0 kHz
2746.0	HSA 7	Bangkok R, THA	SSB	
2747.0	FFB	Boulogne-sur-Mer R, F	SSB	
	XVG 4	Hai Phong R, VTN	SSB	
		many Pilot R stations, FNL	SSB	
2748.0	YQI	Constanta R, ROU	SSB	
2750.0	LZL	Bourgas R, BUL	SSB	
	XSV	Tianjin R, CHN	SSB	
	9KK	Safat R, KWT	SSB	
2752.0	YUW	Bar R, YUG	SSB	
	ZBI	Georgetown R, ASC	SSB	
2754.0	SDJ	Stockholm R, S	SSB	QSX 2206.0 kHz
2755.0	ZBI	Georgetown R, ASC	SSB	
	5OW	Lagos R, NIG	SSB	
	9LL	Freetown R, SRL	SSB	
2756.0	XFS	Tampico R, MEX	SSB	QSX 2290.0 kHz
2758.0	OSU	Oostende R, BEL	SSB	
2760.0	CL./.	many R stations, CUB	SSB	
	TAF	Samsun R, TUR	SSB	
	TAN	Izmir R, TUR	SSB	
	TAO	Trabzon R, TUR	SSB	
	TCR	TURBAN Istanbul R, TUR	SSB	
	9VG 5	Singapore R, SNG	SSB	QSX 2527.0 kHz
2761.0	OSU	Oostende R, BEL	SSB	
	ZSL 28	Lüderitz R, NMB	SSB	
	ZS. ..	many R stations, AFS	SSB	QSX 2056.0 kHz
2765.0	9KK	Safat R, KWT	SSB	
2767.0	MGJ	RN Glasgow, G	CW	
2768.0	A7D	Doha R, QAT	SSB	
	SAE	Tingstäde R, S	SSB	QSX 3289.0 kHz
	SVN	Athens R, GRC	SSB	
2768.5	CWF	Punta Carretas R, URG	SSB	QSX 2152.5 kHz
		Giessen, D	**VFT: ARQ-E 72 Bd: 0300 msg [GSVHF]**	
2770.0	LZW	Varna R, BUL	SSB	
		Potsdam Meteo, D	**100 Bd: 1837-0728 wx**	
2771.0	YU.	many R stations, YUG	SSB	
2772.0	DAO	Kiel R, D	SSB	
2775.0	DAO	Kiel R, D	SSB	QSX 1627.5 kHz

2775.0	FFC	Arcachon R, F	SSB	
	7TA	El Djaza'ir R, ALG	SSB	
2779.0	GND	Stonehaven R, G	SSB	
2780.0	S9M	Sao Tome R, STP	SSB	
	UCY 2	Astrakhan' R, RU, URS	CW	
	9VG 52	Singapore R, SNG	SSB	QSX 2685.0 kHz
2781.0	CUL	Lisbon R, POR	SSB	
2782.0	GLD	Land's End R, G	SSB	
	WCM	Withamsville R, OH, USA	SSB	
	WFN	Jeffersonville R, IN, USA	SSB	
	WGK	Saint Louis R, MO, USA	SSB	
2783.0	ZSA 29	Cape Agulhas R, AFS	SSB	QSX 2100.0 kHz
	ZSE 29	East London R, AFS	SSB	QSX 2100.0 kHz
	ZSL 29	Lüderitz R, NMB	SSB	
	ZSM 29	Cape Columbine R, AFS	SSB	QSX 2100.0 kHz
	ZSV 7	Walvis Bay R, NMB	SSB	
2785.9		Kushiro Harbour R, J	SSB	
2787.0	COB 72	Puerto Padre F R, CUB	SSB	
	COB 90	Holguin F R, CUB	SSB	
	COB 94	Gibara F R, CUB	SSB	
2789.0	IDF	Messina R, I	SSB	QSX 2023.0 kHz
	SAA	Karlskrona R, S	SSB	QSX 3185.0 kHz
2790.0	9MG 24	Georgetown R, Pin. I., MLA	SSB	
2791.0		Port Gentil Port R, GAB	SSB	
2792.0	VJB	RFDS Derby, WA, AUS	SSB	
		Palma de Mallorca R, E	SSB	
2795.0	**UAH**	**Tallinn R, ES, URS**	**SITOR-A: 2020 + 2253 tts; QSX 2535.0 kHz**	
2799.0	DAN	Norddeich R, D	SSB	QSX 2128.0 kHz
	EAV	Cabo de la Nao R, E	SSB	QSX 3231.0 kHz
	SVH	Iraklion R, GRC	SSB	
2800.0	UFA	Batumi R, GE, URS	SSB	QSX 2100.0 kHz
	3XO 7	Kamsar R, GUI	SSB	
	4XZ	IN Haifa, ISR	CW	
2802.0	XFC	Cozumel R, MEX	SSB	QSX 2160.0 kHz
2805.0	COB 32	Flota del Golfo F R, CUB	SSB	
	UDC	Zhdanov R, UK, URS	SSB	QSX 3180.0 kHz
	VKF	RFDS Wyndham, WA, AUS	SSB	
	XFL	Mazatlan R, MEX	SSB	QSX 2355.0 kHz
	XFU	Veracruz R, MEX	SSB	QSX 2670.0 kHz
	3XC 6	Conakry R, GUI	SSB	
2806.0	EAF	Finisterre R, E	SSB	QSX 3283.0 kHz
2810.0	GNI	Niton R, G	SSB	
	OHG	Helsinki R, FNL	SSB	QSX 2002.0 kHz
2812.0	Y5M	Rügen R, D	SSB	
2812.5	DSB	Pusan F R, KOR	CW	
2813.6	*GYA 1*	*RN London, G*	*FAX $*	
			CW	
2814.0	OSA	Antwerpen R, BEL	SSB	
	OSU	Oostende R, BEL	SSB	
2815.0	IDR 8	IN Rome, I	CW	
	RVO 76	*Moscow Meteo, RU, URS*	*FAX $*	
	Y5M	Rügen R, D	SSB	
2815.5	**OST**	**Oostende R, BEL**	**SITOR-A: 0640 + 1120 + 1248 + 1944 + 1953 + 2036 + 2358 tts**	
			CW	
2816.0	5AB	Benghazi R, LBY	SSB	
2817.0	OSA	Antwerpen R, BEL	SSB	
	OSU	Oostende R, BEL	SSB	
	SUH	Alexandria R, EGY	SSB	

2818.0	PZN	Paramaribo R, SUR	SSB
2820.0	EAL	Las Palmas R, CNR	SSB QSX 3290.0 kHz
	TAM	Mersin R, TUR	SSB
	9GX	Tema R, GHA	SSB
2821.0	HSP 5	Phuket R, THA	SSB
2822.0	**DHN 37**	**Grengel Meteo, D**	**100 Bd: 24 h ry or wx**
2824.0	COB 52	Caibarien F R, CUB	SSB
	PCG	Scheveningen R, NLD	SSB QSX 2520.0 kHz
2828.0	GCC	Cullercoats R, G	SSB
2829.5	**SPB**	**Szczecin R, POL**	**SITOR-A: 0017+0258+1641+2038+2101 tts** CW
2830.0	SVK	Kerkyra R, GRC	SSB
	UNM 2	Klaipeda R, LI, URS	SSB
	9MK 8	Kuantan R, MLA	SSB
2831.0	SPO	Szczecin R, POL	SSB QSX 2090.0 kHz
2832.7	**GNK**	**Norwick R, G**	**SITOR-A: 24 h tts; QSX 2494.7 kHz** **SITOR-B: 0300 tfc list** CW
2833.0	COB 6	Camagüey F R, CUB	SSB
	COB 62	Nuevitas F R, CUB	SSB
2836.0	COB 4	Matanzas F R, CUB	SSB QSX 2083.0 kHz
	COB 42	Cadenas F R, CUB	SSB
	HLK	Gangreung R, KOR	SSB QSX 2312.0 kHz
2839.0	COB 41	Cienfuegos F R, CUB	SSB
2840.0	OAH 3	VICMARSA Paita R, PRU	SSB
	OAO 3	VICMARSA Lima R, PRU	SSB
	SUP	Port Said R, EGY	SSB
2841.0	EBA	SN Madrid, E	CW
2842.0		Chipiona R, E	SSB QSX 3231.0 kHz
2843.0	CUB	Funchal R, MDR	SSB
2845.0	DAN	Norddeich R, D	SSB QSX 3158.0 kHz
	FJA	Papeete R, Tahiti, OCE	SSB
	KUQ	Pago Pago R, SMA	SSB
	KUQ 23	Swains Island R, SMA	SSB
	RTO 70	*Krasnoyarsk M., SW, URS*	*FAX 90/576: 1930 chart*
	XVR 4	Vung Tau R, VTN	SSB
2848.0	DAN	Norddeich R, D	SSB QSX 3161.0 kHz

2850.0 - 3025.0 AERONAUTICAL MOBILE (R) <501 505>

2851.0	AMS = AFI, 2A 3B 3C 9C 11B 13E 13F 14	SSB
2854.0	AMS = SAT, 3A 3B 6E 10B	SSB
2857.0	AMS = 2B 2C 6B 13J	SSB
2860.0	AMS = 1B 3A 3C 9B 10B 12E 12J 13I, VAFI	SSB
2863.0	AMS = 2A 2C 7B 13C 13J 13K, VPAC	SSB
2865.5	**Saarbrücken, D**	**ARQ-E 96 Bd: 2042 final msg [HFVSL]**
2866.0	AMS = 2C 3C 4B 6D 10A	SSB
2869.0	AMS = CEP, 2A 2B 3A 6G 10E 13C 14G	SSB
2872.0	AMS = NAT, 3B 6A 6E 13G	SSB
2875.0	AMS = 2A 2B 3A 6G 10A 12G	SSB

2878.0		AMS = AFI, 3B 3C 11B 13I 13J 14	SSB
2879.5	**LGB**	**Rogaland R, NOR**	**SITOR-A: 1914-0607 tts** CW
2881.0		AMS = 1B 2A 2B 3A 6C, VSAM	SSB
2884.0		AMS = 2C 3B 6D	SSB
2887.0		AMS = CAR, 2A 2B 3A 7E 13I 14C	SSB
2890.0		AMS = 1B 6G 13J	SSB
2892.3	**GYA**	**RN London, G**	**75 Bd: 1913-0428 test**
2893.0		AMS = 2C 3 4B 10D 12F	SSB
2896.0		AMS = 2A 2B 3A 6G	SSB
2899.0		AMS = NAT, 5D 6G 13H	SSB
2902.0		AMS = 2B 2C 3B 6G 12J	SSB
2905.0		AMS = 3A 3C 5C 9B, VNAT	SSB
2908.0		AMS = 2B 2C 3B 13M	SSB
2911.0		AMS = 3A 5B 6G 10A	SSB
2914.0		AMS = 2B 2C 3B 13D	SSB
2917.0		AMS = 2A 6E 6G	SSB
2920.0		AMS = 2B 2C 6B 12C 13J	SSB
2923.0		AMS = 3A 6A	SSB
2926.0		AMS = 2A 2C 4A 6F 10C 12J	SSB
2929.0		AMS = 2B 9J	SSB
2932.0		AMS = NP, 2A 2C 13K	SSB
2935.0		AMS = SAT, 3 10D	SSB
2938.0		AMS = 2 6G	SSB
2941.0		AMS = 2A 6F	SSB
2944.0		AMS = MID SAM, 10A 10E 14G	SSB
2947.0		AMS = 6A	SSB
2950.0		AMS = 2 3C 7C 10F 12A 14A 14D, VCAR	SSB
	5AF	**Tripoli Air, LBY**	**0154+0504-0519+2145 ry or msgs**
2953.0		AMS = 4A 6G	SSB
2956.0		AMS = 6C 7F 10A 12E 12F 12G 12H 13F, VMID	SSB
2959.0		AMS = 3A	SSB
		Split Meteo, YUG	**1950 wx**
2962.0		AMS = NAT, 6G	SSB
2963.0	**FDY**	**FAF Orleans, F**	**0256 ry**
2965.0		AMS = 1E 7B 10C 12F 12J 13H, VSEA	SSB
2968.0		AMS = 3B 5B 6G	SSB
2971.0		AMS = NAT, 5D 6G 13G	SSB
2974.0		AMS = 1D 3C	SSB
2977.0		AMS = 1C 6G 13M	SSB
2980.0		AMS = 1D 3C 12C	SSB
2983.0		AMS = 1C 6G 13D	SSB
2986.0		AMS = 3C 5A 13N	SSB
2989.0		AMS = 1D 6G	SSB
2992.0		AMS = MID, 10A 10E 13C	SSB
2995.0		AMS = 6G	SSB
2998.0		AMS = CWP, 7D 12E 12F 12G 12H 13F, VEUR	SSB

3001.0		AMS = 6A 6E	SSB
3004.0		AMS = NCA, 11B 13K	SSB
3007.0		AMS = W II/III	SSB
3010.0		AMS = W I/IV	SSB
3013.0		AMS = W II/IV	SSB
3016.0		AMS = EA NAT, 9D 13G	SSB
3019.0		AMS = NCA, 11B 13K	SSB
3023.0	WORLDWIDE	CALLING/DISTRESS/SAFETY FREQ.	CW/SSB

3025.0 - 3155.0 AERONAUTICAL MOBILE (OR)

3035.5	**DHJ 51**	**Grengel Meteo, D**	**100 Bd: 24 h ry or wx**
3060.0		many USAF stations	SSB
3067.0	AJE	USAF Croughton, G	SSB
3073.5	**DHN 37**	**Grengel Meteo, D**	**100 Bd: 0007-0527 wx, 1828 ry, 1951 wx**
3097.3	'L'	Bcn. Leningrad, RU, URS	CW
3147.0		**ship stations**	**QSX 1646.0 kHz (LGF 2)**
3150.0	9GA	Takoradi R, GHA	SSB
	9GX	Tema R, GHA	SSB
3151.0	CJX	CF St. John's, NFLD, CAN	SSB

3155.0 - 3200.0 FIXED + MOBILE except aeronautical mobile (R) <506 507>

3156.7	HMP 11	Pyongyang, KRE	CW
3160.0	UKW 3	Korsakov R, FE, URS	CW
3162.0	ZHH	Jamestown R, SHN	SSB
3165.0	9YL	North Post R, TRD	SSB
3166.5	**DHJ 51**	**Grengel Meteo, D**	**100 Bd: 0624-1744 ry or wx**
3167.0	'P'	Bcn. Kaliningrad, RU, URS	CW
3168.0		Ziguinchor Port R, SEN	SSB
3170.0	*BAF*	*Beijing Meteo, CHN*	*FAX 120/576: 0005-1047 charts*
	UBD	Krasnovodsk R, TU, URS	SSB
3171.9	'X'	Beacon Prague, TCH	CW
3172.5	**IMB 1**	**Rome Meteo, I**	**24 h ry or wx**
3175.0	OZW	Qanaaq R, GRL	SSB
3179.0	FDC	FAF Metz, F	CW
3179.5	FDC 21	FAF Drachenbronn, F	CW
3180.0	PK. ..	many R stations, INS	SSB QSX 2080.0 kHz
	'X'	Beacon Prague, TCH	CW
3182.0	PKA	Sabang R, INS	SSB QSX 2080.0 kHz
3185.0	UDH	Riga R, LA, URS	CW
3186.0	KWS 78	USE Athens, GRC	CW
3187.3	**GXW**	**RN Portland, G**	**0113 + 0240 + 2352 time**
3188.0	**3BT 2**	**Vacoas Meteo, MAU**	**1830 ry, wx**
3190.0	UBN	Zhdanov R, UK, URS	CW
3192.5	**VVD 53**	**Delhi Meteo, IND**	**1430-0040 wx**
3196.0		**Prague Meteo, TCH**	**1722-0624 ry or wx**
3197.0		Libreville Port R, GAB	SSB

3200.0 - 3230.0 BROADCASTING + FIXED + MOBILE except aeronautical mobile (R) <503 506>

3202.0	EQM	Bushire R, IRN	SSB
	EQQ	Khark R, IRN	SSB
3206.0	'P'	Bcn. Kaliningrad, RU, URS	CW
3210.0	**UNM 2**	**Klaipeda R, LI, URS**	**1814 R tts wtsca**

3210.0	UZT	Mezen' R, RU, URS	SSB
3215.0	URB 2	Klaipeda R, LI, URS	CW
3224.0	DSB	Pusan F R, KOR	CW
3229.0	**AFS**	**USAF AWS Offutt AFB, Omaha, NE, USA**	**75 Bd: 0021-0244+0600+1112 wx**

3230.0 - 3400.0 BROADCASTING + FIXED + MOBILE except aeronautical mobile <503 506 508>

3232.0	*AFS*	*USAF AWS Offutt AFB, Omaha, NE, USA*	*FAX 120/576: 1030+1900-0510 charts*
3234.0	HLP	Pusan R, KOR	CW
3235.0	*RSR 71*	*Minsk Meteo, BY, URS*	*FAX 90/576: 0520 chart, 0555 table 1000/850/700/500/300 hPa values, 1455+1950+2130 chart*
3237.0		Libreville Port R, GAB	SSB
3237.5	UAW	Makhachkala R, RU, URS	SSB QSX 2100.0 kHz
3242.0	*NMF*	*USCG Boston, MA, USA*	*FAX $*
3247.0	EQA	Abadan R, IRN	SSB
3247.5	EQL	Anzali R, IRN	SSB
3250.0	OZW	Qanaaq R, GRL	SSB
	RXB 70	*Khabarovsk Meteo, SE, URS*	*FAX 60/576: 0100-1031+1600 charts*
	UDK 2	Murmansk R, RU, URS	CW
3253.0	**LZF 8**	**Sofia Meteo, BUL**	**1811-0402 ry or wx**
	VFF	*Iqaluit Meteo, NWT, CAN*	*FAX $*
3259.0	**'RPFN'**	**PN Lisbon, POR**	**0305+0350 ry**
3266.7	**LRB 83**	**TELAM Buenos Aires, ARG**	**2100-0500 S nx**
3267.5		**ship stations**	**QSX 2423.5 kHz (SAB)**
3276.0	OYR	Aasiat R, GRL	SSB QSX 1638.0 kHz
3280.0	OYR	Aasiat R, GRL	SSB QSX 1638.0 kHz
	RBX 70	*Tashkent Meteo, UZ, URS*	*FAX $*
3282.0	HKC	Buenaventura R, CLM	SSB
3282.5	**CSP**	**Lisbon Police, POR**	**SITOR-B: 0030 msg**
3287.0	CKN	CF Vancouver, BC, CAN	CW
3289.5	*GFA 21*	*Bracknell Meteo, G*	*FAX $*
3290.0	**RGC 7.**	**Kiyev Meteo, UK, URS**	**24 h ry or wx**
3291.0	'P'	Bcn. Kaliningrad, RU, URS	CW
3296.5	**'RPFNG'**	**PN Lisbon, POR**	**2030 ry**
3297.0	EQA	Abadan R, IRN	SSB
3306.0		ENPA Valencia R, E	SSB
3310.0	UAH	Tallinn R, ES, URS	SSB
	UDE	Odessa R, UK, URS	SSB QSX 3180.0 kHz
3313.0	FDY	FAF Orleans, F	CW
3318.0	**DHJ 51**	**Grengel Meteo, D**	**1810-0403 wx**
3319.0	MGJ	RN Glasgow, G	CW
3319.5	**FDY**	**FAF Orleans, F**	**0021+1704 ry**
3325.0		ENPA Valencia R, E	SSB
3330.0	CHU	Ottawa TS, ONT, CAN	CW/SSB
	FUN	FN Lorient, F	CW
	RWZ 72	**Moscow Meteo, RU, URS**	**1800-0528 ry or wx**
3337.5	FDG 7	FAF Toulouse, F	CW
3341.5	FDG 21	FAF Cognac, F	CW
3357.0	*NAM*	*USN Norfolk, VA, USA*	*FAX $*
3360.0	*RPN 71*	*Kiyev Meteo, UK, URS*	*FAX $*
3365.0	*JMJ*	*Tokyo Meteo, J*	*FAX $*
3370.0	DFC 37	BMPT Frankfurt, D	SSB
3375.0	HLK	Gangreung R, KOR	CW
3377.0	*YMA 20*	*Ankara Meteo, TUR*	*FAX $*

3388.0	**'RFFG'**	**FF Strasbourg, F**	**ARQ-E 96 Bd: 0105 svc msg [IXV]**
3400.0 - 3500.0		**AERONAUTICAL MOBILE (R)**	
3401.0		AMS = 2B 2C 3B 9B 12C 13K	SSB
3404.0		AMS = 3A 3C 9C 9D 10B, VAFI	SSB SSB
3407.0		AMS = 2B 2C 3B 7C 12D 14D	SSB
3410.0		AMS = 1D 3C 11B 13J	SSB
3413.0		AMS = CEP, 3B 6G 13C 14A 14E, VEUR	SSB
3416.0		AMS = 1D 2A 2B 3A 6D	SSB
3419.0		AMS = AFI, 3B 3C 9B 10D 12J 13I	SSB
3422.0		AMS = 2A 2B 3A 6G	SSB
3425.0		AMS = AFI, 3B 3C 9B 10D 13D	SSB
3428.0		AMS = 2B 2C 11B 13J	SSB
3431.0		AMS = 3A 3B 5B 6G	SSB
3434.0		AMS = 2A 2C 6F 11B 13G	SSB
3436.6	*GZZ 6*	*RN London, G*	*FAX // 2813.6 kHz $* CW
3437.0		AMS = 3B 4A 6G 13M	SSB
3440.0		AMS = 2A 2C 6F 12	SSB
3443.0		AMS = 3A 3B 4B 6E 11B 13N	SSB
3446.0		AMS = 1D 6G 10E 13F 14	SSB
3449.0		AMS = 2B 2C 6G 10A 13M	SSB
3452.0		AMS = SAT, 3A 3C 5A 5C 14C	SSB
3455.0		AMS = CAR CWP, 2A 2C 7B 13H	SSB
3458.0		AMS = 1B 10D 13C 13J 13K, VSEA	SSB
3461.0		AMS = 7F 9C 12E 12F 12G 12H 14, VNCA	SSB
3464.0		AMS = 1C 6G 12C 13K	SSB
3467.0		AMS = AFI MID SP, 10B 13D	SSB
3470.0		AMS = SEA, 1C 10A 13G	SSB
3473.0		AMS = MID, 1B 6C 10E 13C	SSB
3476.0		AMS = INO NAT, 9B 13F	SSB
3479.0		AMS = EUR SAM, 6A 6B 14	SSB
3482.0		AMS = 5D 6G	SSB
3485.0		AMS = EA SEA, 7E 13H, VNAT	SSB
3488.0		AMS = 1B 5B 6B 10B 12E 12F 12G 12H 14B 14F	SSB
3491.0		AMS = EA, 1E 4A 10C 13E	SSB
3494.0		AMS = W II	SSB
3497.0		AMS = W II	SSB

3500.0 - 3750.0		Region 1 = AMATEUR + FIXED + MOBILE except aeronautical mobile <484 570> Region 2 = AMATEUR <509 510 511> Region 3 = AMATEUR + FIXED + MOBILE <510>	
3508.0		R Moscow feeder, RU, URS	SSB
3517.0	GNI	**Niton R, G**	**SITOR-A: 1308-0619 tts** **SITOR-B: 0300+1500 tfc list** CW
3530.0	UPB	Provideniya R, FE, URS	CW
3535.0	6YI	Kingston R, JMC	CW/SSB
3540.0	URD	Leningrad R, RU, URS	CW
3550.0	**YMA 20**	**Ankara Meteo, TUR**	**1206-0516 ry or wx**
3560.0	*HZN*	*Jeddah Meteo, ARS*	*FAX $*
3562.0	**HZN**	**Jeddah Meteo, ARS**	**100 Bd: 1747 wx**
3563.0	'U'	Bcn. Murmansk, RU, URS	CW
3563.5	'D'	Beacon Odessa, UK, URS	CW
3563.6	7QH ..	many RAILMA R st., MWI	SSB
3564.0	'C'	Beacon Moscow, RU, URS	CW
3564.2	'P'	Bcn. Kaliningrad, RU, URS	CW
3565.8	'L'	Bcn. Leningrad, RU, URS	CW
3566.0	'O'	Beacon Moscow, RU, URS	CW
3590.0	**ROF 71**	**Novosibirsk M., SW, URS**	**1857-2206 wx**
	UFH	Petropavl.-Km. R, FE, URS	CW
3592.0	'P'	Bcn. Kaliningrad, RU, URS	CW
3593.0	**FSB 52**	**INTERPOL Paris, F**	**SITOR-A: 0029+2131 encrypted tfc**
3595.0	**9HA**	**Luqa Air, MLT**	**1558-0758 ry or msgs [MLA]**
3597.5		**Tübingen, D**	**ARQ-E 96 Bd: 0414-1732 encrypted tfc**
3605.0	CUL	Lisbon R, POR	SSB
	UQB	Kholmsk R, FE, URS	CW
3607.3	**GKZ**	**Humber R, G**	**SITOR-A: 1858-0257 tts; QSX 2496.3 kHz** CW
3607.8	**GHD**	**Gallan Head R, G**	**SITOR-A: 1009+1944-0256 tts; QSX 2144.4 kHz** CW
3608.3	**GCC**	**Cullercoats R, G**	**SITOR-A: 1857-0617 tts; QSX 2497.3 kHz** **SITOR-B: 2110 tts** CW
3610.0	GKR	Wick R, G	SSB
	GPK	Portpatrick R, G	SSB
	ROO 70	*Rst.-na-D. M., RU, URS*	*FAX $*
3613.0	SVK	Kerkyra R, GRC	SSB
3615.7	**GND**	**Stonehaven R, G**	**SITOR-A: 24 h tts; QSX 2000.7 kHz** CW
3617.0	GND	Stonehaven R, G	SSB
3618.5	CTH 21	PN Horta, AZR	CW
3622.5	*JMH*	*Tokyo Meteo, J*	*FAX $*
3624.0	YKM 7	Al Ladhiqiyah R, SYR	SSB
3624.4	SVN	Athens R, GRC	SSB
3627.9	LFO	Oerlandet R, NOR	SSB QSX 3199.9 kHz
3628.0	7OA	Aden R, YEM	SSB
3629.0	OSU	Oostende R, BEL	SSB
	'98 DDX'	**SN Madrid, E**	**100 Bd: 2243 ry, clg '96 JBL'**
3630.0	SVR	Rhodes R, GRC	SSB
3631.0	LGN	Bergen R, NOR	SSB QSX 3203.0 kHz

3631.0	LGV	Vardoe R, NOR	SSB	QSX 3203.0 kHz
3632.0	OSU	Oostende R, BEL	SSB	
3634.0	FDC	FAF Metz, F	CW	
3635.0	*RCK 77*	*Novosibirsk M., SW, URS*	*FAX $*	
3635.5	'U'	Bcn. Murmansk, RU, URS	CW	
3636.0	YMB 20	Bandirma Meteo, TUR	CW	
3638.0	LGQ	Rogaland R, NOR	SSB	QSX 3210.0 kHz
3640.0	SVH	Iraklion R, GRC	SSB	
3641.0	BMB	Taipei Meteo, TAI	CW	
3641.9	LGZ	Farsund R, NOR	SSB	QSX 3213.9 kHz
3645.0	LGL	Floroe R, NOR	SSB	QSX 3217.0 kHz
	LGS	Svalbard R, Spitsbgn., NOR	SSB	QSX 3217.0 kHz
3648.0	TAI	Iskenderun R, TUR	SSB	
3649.0	'P'	Bcn. Kaliningrad, RU, URS	CW	
3650.0	3BT	Vacoas Meteo, MAU	SSB	
		Madrid Meteo, E	*FAX $*	
3652.0	LGI	Hammerfest R, NOR	SSB	QSX 3168.0 kHz
	OSA	Antwerpen R, BEL	SSB	
	OSU	Oostende R, BEL	SSB	
3652.5	SXA 32	GN Piraeus, GRC	CW	
3655.0	OSA	Antwerpen R, BEL	SSB	
	OSU	Oostende R, BEL	SSB	
	RVZ 73	**Arkhangelsk M., RU, URS**	**1858+2129-0343 wx**	
3656.0	4XA	Elat R, ISR	SSB	
	4XO	Haifa R, ISR	SSB	
3660.9	SVN	Athens R, GRC	SSB	
3664.0	FDC	FAF Metz, F	CW	
3665.0	**RYZ 8**	**Kishinev Meteo, MO, URS**	**0230 ry, wx in UNID code**	
3666.0	GND	Stonehaven R, G	SSB	
3670.0	OBH 2	Pimentel R, PRU	SSB	
	YUS	Split R, YUG	SSB	
	YUX	Dubrovnik R, YUG	SSB	
3673.0	A7D	Doha R, QAT	SSB	
	PCG	Scheveningen R, NLD	SSB	QSX 3191.0 kHz
3676.4	**FDY**	**FAF Orleans, F**	**1923 ry**	
3678.0	SXH	GN Khania, GRC	CW	
3681.0	OSU	Oostende R, BEL	SSB	
3683.0	SXA 2	GN Piraeus, GRC	CW	
3684.0	OSU	Oostende R, BEL	SSB	
3687.5	FDY	FAF Orleans, F	CW	
3690.0	*RBV 70*	*Tashkent Meteo, UZ, URS*	*FAX $*	
3690.1		Roseau Port R, DMA	SSB	
3694.0	**'RPFNS'**	**PN Sagres, POR**	**0030 msg + tfc to 'RPFNC' [BSS]**	
3696.0	**'RPFNN'**	**PN Lisbon, POR**	**0140 tfc, 2016 clg 'RPFNG'**	
	'RPTIH'	**PN Horta, AZR**	**0251+0304 ry**	
3710.0	**RGJ 61**	**Kuybishev Meteo, RU, URS**	**0226 wx** *FAX 60/576: 0140+1945+2155+2245 chart Kazakhstan*	
3712.0	SXA 33	GN Piraeus, GRC	CW	
3714.0	**FSB**	**INTERPOL Paris, F**	**SITOR-A: 2128 encrypted tfc**	
3717.0	**FSB**	**INTERPOL Paris, F**	**SITOR-A: 2347-0348 encrypted tfc** CW	
3720.0	RBW 40	Murmansk, RU, URS	CW	
3722.0	FFC	Arcachon R, F	SSB	
	FFU	Brest - Le Conquet R, F	SSB	
	TKM	Grasse R, F	SSB	
3724.0	GXH	RN/USN Thurso, G	CW	
3730.0	URB 2	Klaipeda R, LI, URS	CW	
3735.0	IQH	Napoli R, I	SSB	
3737.0	UJY	Kaliningrad R, RU, URS	CW	

3738.0	GKZ	Humber R, G	SSB
3740.0	LZW	Varna R, BUL	SSB
3742.0	A4M	Muscat R, OMA	SSB
3743.0	SVX	Chios R, GRC	SSB
3745.0	A4M	Muscat R, OMA	SSB
	A9M	Hamala R, BHR	SSB
	RIS 70	*Tbilisi Meteo, GE, URS*	*FAX $*
		UNID meteo station (1190)	100 Bd: 0034 + 1925 + 2323 wx
3747.0	IPD	Civitavecchia R, I	SSB

3750.0 - 3800.0

Region 1 = AMATEUR + FIXED + MOBILE except aeronautical mobile <484 510>
Region 2 = AMATEUR + FIXED + MOBILE except aeronautical mobile (R) <510 511 512 514 515>
Region 3 = AMATEUR + FIXED + MOBILE <510>

3750.0	GCC	Cullercoats R, G	SSB
	RBV 71	Tashkent Meteo, UZ, URS	1928 + 2126 wx
3754.0	'P'	Bcn. Kaliningrad, RU, URS	CW
3765.0	4XA	Elat R, ISR	SSB
	4XT	Tel Aviv R, ISR	SSB
3772.0	'P'	Bcn. Kaliningrad, RU, URS	CW
3772.9	SVN	Athens R, GRC	SSB
3778.0	GKZ	Humber R, G	SSB
3780.0	BZC 75	Urumqi Meteo, CHN	1932 wx
	FVJ 20	Saint Herblain Gendarm., F	CW
3781.0	XTU	ASECNA Ouagadougou, BFA	ARQ-M2 96 Bd: A: 0520 "ch", wx with WMO headings B: 2155 msgs + "ch" to 5UA [ONA]
3782.0	CTP	NATO Lisbon, POR	CW
3790.0	EBA	SN Madrid, E	CW
	OBR 3	Salaverry R, PRU	SSB
3793.0	SVL	Limnos R, PRU	SSB
3795.0	FFB	Boulogne-sur-Mer R, F	SSB
	FFM	Marseille R, F	SSB
	FFO	Saint Nazaire R, F	SSB
		Baku Meteo, AZ, URS	0039 + 0222 wx
3798.0	FDY	FAF Orleans, F	0043 + 1933 + 2125 ry

3800.0 - 3900.0

Region 1 = AERONAUTICAL MOBILE (OR) + FIXED + LAND MOBILE
Region 2 = AMATEUR + FIXED + MOBILE except aeronautical mobile (R) <510 511 512 514 515>
Region 3 = AMATEUR + FIXED + MOBILE <510>

3801.4	OBG 3	Pisco R, PRU	SSB
	OBT 2	Talara R, PRU	SSB
3803.0	'RFFS'	FF Metz, F	ARQ-E 96 Bd: 2046 air msg to 'RFFC' [IBA]
3807.0	'P'	Bcn. Kaliningrad, RU, URS	CW
3810.0	HD 210A	Guayaquil TS, EQA	CW/SSB
	RST 75	*Minsk Meteo, BY, URS*	*FAX // 3235.0 kHz*
3814.0	FDC	FAF Metz, F	1325 + 1541 clg FDX
3825.5	DHJ 51	Grengel Meteo, D	100 Bd: 1015 + 1320 + 1935 wx
3832.5	FDG 2	FAF Mont-de-Marsan, F	CW
3840.0	LRO 23	NA Buenos Aires, ARG	75 Bd: 2100-0200 S nx
	OAB 6	PELPER Iquitos R, PRU	SSB

3840.0	OCP 2	PELPER Saramuro R, PRU	SSB
3850.0	**ETD 3**	**Addis Ababa Air, ETH**	**2028 ry**
3851.0	FVK 20	Bordeaux Gendarmerie, F	CW
3855.0	*DDH 3*	*Hamburg Meteo, D*	*FAX $*
3859.0	**FUG**	**FN La Regine, F**	**75 Bd: 0123+2212 clg EBA**
3860.6	CWC 30	UN La Paloma, URG	SSB
	CWC 39	UN Montevideo, URG	SSB
	L..	many R stations, ARG	SSB
3871.0	DSB	Pusan F R, KOR	CW
3875.0	*RCI 72*	*Moscow Meteo, RU, URS*	*FAX // 2815.0 kHz $*
3884.4	ASK	Karachi R, PAK	SSB
3890.0	UQB	Kholmsk R, FE, URS	CW
3894.0	**HSD**	**Bangkok Air, THA**	**1717 msgs, 1838+1845+2314 ry**
3895.0	**'UIII'**	**Irkutsk Air, SE, URS**	**2020 msgs [IUV]**
3898.0	**TNL**	**ASECNA Brazzaville, COG**	**0044+2121 msg [FKA]**

3900.0 - 3950.0 Region 1 = AERONAUTICAL MOBILE (OR) <513>
Region 2 = AMATEUR + FIXED + MOBILE except aeronautical mobile (R) <510 511 512 514 515>
Region 3 = AERONAUTICAL MOBILE + BROADCASTING

3917.5	AFA 7..	many USAF MARS stations	SSB
3934.0	**AEM 1USA**	**USA MARS Heidelberg, D**	**Packet Radio 300 Bd: 1900 tfc**

3950.0 - 4000.0 Region 1 = BROADCASTING + FIXED
Region 2 = AMATEUR + FIXED + MOBILE except aeronautical mobile (R) <510 511 512 514 515>
Region 3 = BROADCASTING + FIXED <516>

3957.0	**SUU**	**Cairo Meteo, EGY**	**0240 wx**
3980.0	TIM	Limon R, CTR	SSB
3995.0	**RXA 71**	**Alma Ata Meteo, KA, URS**	**1847-0406 ry or wx**
3999.0	**HZJ**	**Jeddah Air, ARS**	**1610-0428 ry or msgs [JVA]**

4000.0 - 4063.0 FIXED + MARITIME MOBILE <516 517>

4000.0		ship stations, ch 1	SSB
4001.0	GXH	RN/USN Thurso, G	CW
4002.0	**YRR 2**	**Bucharest Meteo, ROU**	**1718-0522 wx**
4003.0		ship stations, ch 2	SSB
4004.5	**LRO 2**	**TELAM Buenos Aires, ARG**	**0900+2200-0500 S nx**
4005.0	*RSR 76*	*Minsk Meteo, BY, URS*	*FAX 90/576: 0730 chart Northern Europe*
4006.0		ship stations, ch 3	SSB
4009.0		ship stations, ch 4	SSB
4010.0	DFD 21	BMPT Frankfurt, D	SSB
	VJK	RFDS Meekath., WA, AUS	SSB
	VJY	RFDS Darwin, NT, AUS	SSB
	VNZ	RFDS Pt. Augusta, SA, AUS	SSB
4012.0		ship stations, ch 5	SSB
4014.0	*ZRO 5*	*Pretoria Meteo, AFS*	*FAX $*
4015.0		ship stations, ch 6	SSB
		Potsdam Meteo, D	**100 Bd: 1411-0613 wx**
4018.0		ship stations, ch 7	SSB
	ZRO 5	**Pretoria Meteo, AFS**	**75 Bd: 1715-0402 wx**
4020.0	**OMV 51**	**Prague, TCH**	**75 Bd: 1520 ry**

4021.0		ship stations, ch 8	SSB
4024.0		ship stations, ch 9	SSB
4025.0		many USA MARS stations	SSB
4027.0		ship stations, ch 10	SSB
4030.0		ship stations, ch 11	SSB
	UHO 2	Yuzhno-S. Meteo, FE, URS	CW
	VKL	RFDS Port Hedl., WA, AUS	SSB
4031.0	'P'	Bcn. Kaliningrad, RU, URS	CW
4033.0		ship stations, ch 12	SSB
4033.3	**FDY**	**FAF Orleans, F**	**45 Bd: 0302 ry**
4036.0		ship stations, ch 13	SSB
4039.0		ship stations, ch 14	SSB
4042.0		ship stations, ch 15	SSB
	FDC 3	FAF Dijon, F	CW
4042.5	**A9M 9**	**GNA Manama, BHR**	**75 Bd: 1500-1700 E nx, 1700-2100 A nx**
4045.0		ship stations, ch 16	SSB
	VJJ	RFDS Charlevl., QLD, AUS	SSB
		Potsdam Meteo, D	**100 Bd: 0018+1712+2007 wx**
4048.0		ship stations, ch 17	SSB
4051.0		ship stations, ch 18	SSB
4054.0		ship stations, ch 19	SSB
4054.5	'K'	Bcn. Khabarovsk, SE, URS	CW
4055.0	VJC	RFDS Bkn. Hill, NSW, AUS	SSB
4056.0	**TJK**	**ASECNA Douala, CME**	**0220 "ch"**
4057.0		ship stations, ch 20	SSB
4060.0		ship stations, ch 21	SSB
4061.5	FVA 80	Rosny sur Bois Gend., F	CW

4063.0 - 4438.0 MARITIME MOBILE <500A 500B 518 519 520 520A 520B>

4063.0		ship stations, ch 401	SSB	QSX 4357.4 kHz
	WCM	Withamsville R, OH, USA		
4066.1		ship stations, ch 402	SSB	QSX 4360.5 kHz
	OED	DDSG Vienna R, AUT		
4069.2		ship stations, ch 403	SSB	QSX 4363.6 kHz
4072.3		ship stations, ch 404	SSB	QSX 4366.7 kHz
	OED	DDSG Vienna R, AUT		
4075.4		ship stations, ch 405	SSB	QSX 4369.8 kHz
4078.5		ship stations, ch 406	SSB	QSX 4372.9 kHz
4081.6		ship stations, ch 407	SSB	QSX 4376.0 kHz
4084.7		ship stations, ch 408	SSB	QSX 4379.1 kHz
4087.8		ship stations, ch 409	SSB	QSX 4382.2 kHz
4090.9		ship stations, ch 410	SSB	QSX 4385.3 kHz
4094.0		ship stations, ch 411	SSB	QSX 4388.4 kHz
4097.1		ship stations, ch 412	SSB	QSX 4391.5 kHz
4099.0	'P'	Bcn. Kaliningrad, RU, URS	CW	
4100.2		ship stations, ch 413	SSB	QSX 4394.6 kHz
4103.3		ship stations, ch 414	SSB	QSX 4397.7 kHz
4106.4		ship stations, ch 415	SSB	QSX 4400.8 kHz
4109.5		ship stations, ch 416	SSB	QSX 4403.9 kHz
4112.6		ship stations, ch 417	SSB	QSX 4407.0 kHz
4115.7		ship stations, ch 418	SSB	QSX 4410.1 kHz
	WFN	Jeffersonville R, IN, USA		
4118.8		ship stations, ch 419	SSB	QSX 4413.2 kHz
4121.9		ship stations, ch 420	SSB	QSX 4416.3 kHz

4125.0		ship stations, ch 421 (WORLDWIDE CALLING FREQUENCY) SUPPLEMENTARY WORLDWIDE CALLING/DISTRESS/SAFETY F. COMMON USA COAST AND SHIP STATIONS SIMPLEX FREQUENCY (PEP NOT MORE THAN 30 DBW)	SSB	QSX 4419.4 kHz
4128.1		ship stations, ch 422	SSB	QSX 4422.5 kHz
4131.2		ship stations, ch 423	SSB	QSX 4425.6 kHz
	PPF	Fortaleza R, B		
4132.6	'L'	Bcn. Leningrad, RU, URS	CW	
4134.3		ship stations, ch 424	SSB	QSX 4428.7 kHz
4136.3	D.. .	many R stations, PHL	SSB	
	HOR 24	REFPA Panama R, PNR	SSB	
		Roseau Port R, DMA	SSB	
4137.4		ship stations, ch 425	SSB	QSX 4431.8 kHz
	PY. 2.	many late Clube R stns., B		
4139.5	DZM 9	Manila R, PHL	SSB	
	HPQ 21	Panama Port R, PNR	SSB	
		Armuelles Port R, PNR	SSB	
		La Palma Port R, PNR	SSB	
		Vacamonte Port R, PNR	SSB	
4140.5		ship stations, ch 426	SSB	QSX 4434.9 kHz
4143.6	WORLDWIDE	COAST AND SHIP STATIONS SIMPLEX FREQUENCY	SSB	
4163.0	GYA	RN London, G	75 Bd: 1934 test	
	RMP	SN Kaliningrad, RU, URS	CW	
4170.5		ship stations, channel 1	QSX 4350.0 kHz	
4171.0		ship stations, channel 2	QSX 4350.5 kHz	
4171.5		ship stations, channel 3	QSX 4351.0 kHz	
4172.0		ship stations, channel 4	QSX 4351.5 kHz	
4172.5		ship stations, channel 5	QSX 4352.0 kHz	
4173.0		ship stations, channel 6	QSX 4352.5 kHz	
4173.5		ship stations, channel 7	QSX 4353.0 kHz	
4174.0		ship stations, channel 8	QSX 4353.5 kHz	
4174.5		ship stations, channel 9	QSX 4354.0 kHz	
4175.0		ship stations, channel 10	QSX 4354.5 kHz	
4175.5		ship stations, channel 11	QSX 4355.0 kHz	
4176.0		ship stations, channel 12	QSX 4355.5 kHz	
4176.5		ship stations, channel 13	QSX 4356.0 kHz	
4177.0		ship stations, channel 14	QSX 4356.5 kHz	
4177.5		ship stations, non-paired		
	WORLDWIDE	NBDPT DISTR. AND SAFETY F.		
		ship stations	QSX 4344.5 kHz (GKS 2)	
4178.0		ship stations, non-paired		
4178.5		ship stations, non-paired		
		ship stations	QSX 4268.6 kHz (SAB 23)	
4179.0		ship stations, non-paired		
		ship stations	QSX 4605.0 kHz (OST)	
4179.5		ship stations, non-paired		
4180.2		ship stations calling, ch 1	CW	
4180.6		ship stations calling, ch 2	CW	
4181.0		ship stations calling, ch 3	CW	
4181.4		ship stations calling, ch 4	CW	
4181.8		ship stations calling, ch 5	CW	
4182.2		ship stations calling, ch 6	CW	
4182.6		ship stations calling, ch 7	CW	
4183.0		ship stations calling, ch 8	CW	
4183.4		ship stations calling, ch 9	CW	
4183.8		ship stations calling, ch 10	CW	

4184.2		ship stations calling, ch 11	CW
4184.6		ship stations calling, ch 12	CW
4185.0		ship stations calling, ch 13	CW
4185.4		ship stations calling, ch 14	CW
4185.8		ship stations calling, ch 15	CW
4186.2		ship stations calling, ch 16	CW
4186.6		ship stations calling, ch 17	CW
4187.0		ship stations calling, ch 18	CW
4187.5	WORLDWIDE	SHIP STATIONS DSC FREQUENCY	
4202.2	'P'	Bcn. Kaliningrad, RU, URS	CW
4202.5	*RAT 21*	*Moscow Meteo, RU, URS*	*FAX // 144.5 kHz $*
4207.5	WORLDWIDE	DSC DISTRESS AND SAFETY F.	
4209.5	WORLDWIDE	NBDPT NAVTEX FREQUENCY	
4210.0	WORLDWIDE	NBDPT MSI FREQUENCY	
4210.3	GYA	RN London, G	**75 Bd: 1937 + 2359 test**
4217.0	ICS	La Spezia, I	SSB
4220.0	LZW 3	Varna R, BUL	CW
	YIR	Basrah Control R, IRQ	CW
	ZAD 2	Durres R, ALB	CW
4220.5	C6N	Nassau R, BAH	CW
	DAF	Norddeich R, D	CW
4221.3	GYU	RN Gibraltar, GIB	CW
4222.0	DVZ 9	Navotas R, PHL	CW
	XSN	Ningbo R, CHN	CW
4223.0	KLC	Galveston R, TX, USA	CW
	KWX	*NWS Lewes, DE, USA*	*FAX $*
	SVD 2	Athens R, GRC	CW
	UGH 2	Juzno R, FE, URS	CW
4223.5	9HD	Valetta R, MLT	CW
4224.0	DZD 9	Quezon City R, PHL	CW
4225.3	CLA 3	Habana R, CUB	CW
	JCT	Choshi R, J	CW
	LPC 45	Ushuaia R, ARG	CW
	XFM	Manzanillo R, MEX	CW
	XFN	Progreso R, MEX	CW
	6YX	JCG Kingston, JMC	CW
4226.0	DYE 6/9	Cebu R, PHL	CW
4227.0	SXA 3	GN Piraeus, GRC	CW
4228.0	*CBV*	*DGTMMM Valparaiso R, CHL*	*FAX $* CW
	KFS	San Francisco R, CA, USA	CW
	XSP	Shantou R, CHN	CW
	9MG 6	Georgetown R, Pin. I., MLA	CW
4228.5	VII	Port Kennedy R, T. I., AUS	CW
	VIM	Melbourne R, VIC, AUS	CW
4229.0	UNM 2	Klaipeda R, LI, URS	CW
	VIP 7	Perth R, WA, AUS	CW
4230.0	D.. .	many R stations, PHL	CW
	UFB	Odessa R, UK, URS	CW
	4WD 3	Hodeidah R, YEM	CW
4230.5	VIB	Brisbane R, QLD, AUS	CW
4231.0	A7D	Doha R, QAT	CW
	PPJ	Juncao R, B	CW
	S3E	Khulna R, BGD	CW
4232.0	FUF	FN Fort de France, MRT	CW
	HWN	FN Paris, F	CW
4232.5	CTV 4	PN Lisbon, POR	CW
	VPS 8	Victoria Island R, HKG	CW
	5RS	Toamasina R, MDG	CW
4233.0	A4M	Muscat R, OMA	CW

4233.0	UKX	Nakhodka R, SE, URS	CW
4233.5	Y5M	Rügen R, D	CW
4235.0	CLA 2	Habana R, CUB	CW
	HLP	Pusan R, KOR	CW
	ICB	Genova R, I	CW
	VAI	CCG Vancouver, BC, CAN	CW
4235.5	**CTV 4**	**PN Lisbon, POR**	**2000 wx**
	EDF	Madrid R, E	CW
4236.0	UDH	Riga R, LA, URS	CW
4236.5	VFF	CCG Iqaluit, NWT, CAN	CW
4237.0	HCG	Guayaquil R, EQA	CW
	PPO	Olinda R, B	CW
4237.5	FUE	FN Brest, F	CW
4238.0	DUF	Manila R, PHL	CW
	PK.	many R stations, INS	CW
	VTP 4	IN Vishakhapatnam, IND	CW
	WCC	Chatham R, MA, USA	CW
	4XO	Haifa R, ISR	CW
4239.0	HAR	Budapest R, HNG	CW
	9MB 2	MN Georgetown, P.I., MLA	CW
4239.4	SVB 2	Athens R, GRC	CW
4239.5	L..	many R stations, ARG	CW
4240.0	ELH	Harbel R, LBR	CW
	XSE	Qinhuangdao R, CHN	CW
	Y5M	Rügen R, D	CW
	ZSD 49	Durban R, AFS	CW
4241.0	HAR	Budapest R, HNG	CW
	LGW	Rogaland R, NOR	CW
	UKA	Vladivostok R, SE, URS	CW
	5AL	ARGOIL Tobruk R, LBY	CW
4242.0	DUS	Manila R, PHL	CW
4242.5	**Y5M**	**Rügen R, D**	**0130 + 2100 G nx** **SITOR-B: 1000 G nx** CW
	ZSD 43	Durban R, AFS	CW
4243.0	UVD	Magadan R, FE, URS	CW
4244.0	DAL	Norddeich R, D	CW
	DUN	PN Manila, PHL	CW
	J..	many R stations, J	CW
	PPR	Rio de Janeiro R, B	CW
	XSK	Beihai R, CHN	CW
	3CA 4	Bata R, GNE	CW
4244.2	ZRH 2	SAN Cape Town, AFS	CW
4245.0	UAD 2	Kholmsk R, FE, URS	CW
	UFN	Novorossiysk R, RU, URS	CW
	VIS 53	Sydney R, NSW, AUS	CW
4245.8	ZRQ 2	SAN Cape Town, AFS	CW
4246.0	FUE	FN Brest, F	CW
4247.0	CBO	DGTMMM P. Corona R, CHL	CW
	KPH	San Francisco R, CA, USA	CW
	OBC 3	Callao R, PRU	CW
	P2M	Port Moresby R, PNG	CW
	P2R	Rabaul R, PNG	CW
4247.5	PPL	Belem R, B	CW
4247.6	*GZZ 2*	*RN London, G*	*FAX // 2813.6 kHz $* CW
4248.0	DUW	Manila R, PHL	CW
4249.0	DSB	Pusan F R, KOR	CW
4250.0	ASK	Karachi R, PAK	CW
	LZW 2	Varna R, BUL	CW

4250.0	PCH 20	Scheveningen R, NLD	CW
	SUQ	Ismai'liya R, EGY	CW
	XFL	Mazatlan R, MEX	CW
	ZLP 2	RNZN Waiouru, NZL	CW
4251.0	PPJ	Juncao R, B	CW
	3VP 6	Sakhira R, TUN	CW
4251.5	GKC 2	Portishead R, G	CW
4252.0	DSQ	Inchon F R, KOR	CW
4253.0	TAH	Istanbul R, TUR	CW
	UXN	Arkhangelsk R, RU, URS	CW
	XSZ	Dalian R, CHN	CW
4253.5	HZG	Dammam R, ARS	CW
4255.0	CFH	CF Halifax, NS, CAN	CW
	LST	YPF Buenos Aires R, ARG	CW
4255.3	PZN 25	Paramaribo R, SUR	CW
4255.6	VIR	Rockhampton R, QLD, AUS	CW
	VIT	Townsville R, QLD, AUS	CW
4256.0	CBV	DGTMMM Valpar. R, CHL	CW
	DZY 7	Manila R, PHL	CW
	GKD 2	Portishead R, G	CW
	KLC	Galveston R, TX, USA	CW
	WLO	Mobile R, AL, USA	CW
4256.5	SXE	HCG Elevsis, GRC	CW
4257.5	WLO	Mobile R, AL, USA	CW
4258.3	GYA	RN London, G	75 Bd: 1207 + 1327 + 2001-0346 test
4259.0	PWZ	BN Rio de Janeiro, B	CW
4260.0	DZB 7	Malabon R, PHL	CW
	OBF 4	Mollendo R, PRU	CW
	PW.	many BN stations, B	CW
	TBA 2	TN Ankara, TUR	CW
	UDK 2	Murmansk R, RU, URS	CW
	XSL 22	Fangcheng R, CHN	CW
	Y5M	Rügen R, D	CW
4261.0	EBA	SN Madrid, E	CW
	ZSC 45	Cape Town R, AFS	CW
4262.0	DZW	Manila R, PHL	CW
	EQL	Anzali R, IRN	CW
	EQO	Nowshahr R, IRN	CW
	J2A 4	Jibuti R, DJI	CW
	LPD 62	General Pacheco R, ARG	CW
	LZL 2	Bourgas R, BUL	CW
	SAG 2	Goeteborg R, S	CW
	9GA	Takoradi R, GHA	CW
4263.5	YKI	SCOTC Tartus R, SYR	CW
4265.0	CBV	DGTMMM Valpar. R, CHL	CW
	DAM	Norddeich R/TS, D	CW
	PPL	Belem R, B	CW
	UBN	Zhdanov R, UK, URS	CW
	Y5M	Rügen R, D	CW
4266.0	XSR	Haikou R, CHN	CW
4267.0	TCR	TURBAN Istanbul R, TUR	CW
4267.9	GKG 2	Portishead R, G	CW
4268.0	*CKN*	*CF Vancouver, BC, CAN*	*FAX $* CW
	DVY 2	Manila R, PHL	CW
	DZE	Mandaluyong R, PHL	CW
	LPD 68	General Pacheco R, ARG	CW
	VTG 4	IN Bombay, IND	CW
	WCC	Chatham R, MA, USA	CW

4268.0	XFC	Cozumel R, MEX	CW
	XFK	La Paz R, MEX	CW
	XFQ	Salina Cruz R, MEX	CW
4268.6	**SAB 23**	**Goeteborg R, S**	**SITOR-A: 24 h tts; QSX 4178.4 kHz** **SITOR-B: 0500 + 1700 Swedish nx** CW
4269.0	XSO 4	Zhoushan R, CHN	CW
4269.5	EDZ	Madrid R, E	CW
4270.0	DZD 3	Manila R, PHL	CW
4271.0	**CFH**	**CF Halifax, NS, CAN**	**75 Bd: 2200-1135 wx** *FAX // 122.5 kHz $*
	FUJ	FN Noumea, NCL	CW
	OFJ 4	Helsinki R, FNL	CW
	UBE 2	Petropavl.-Km. R, FE, URS	CW
	XFY	Guaymas R, MEX	CW
	XSG	Shanghai R, CHN	CW
	XSH 48	Dandong R, CHN	CW
4272.0	SPH 22	Gdynia R, POL	CW
4272.5	VIA	Adelaide R, SA, AUS	CW
	VID	Darwin R, NT, AUS	CW
4273.0	HLF	Soul R, KOR	CW
4274.0	DZF	Bacoor R, PHL	CW
	GKB 2	Portishead R, G	CW
	KFS	San Francisco R, CA, USA	CW
	WPD	Tampa R, FL, USA	CW
	XSU	Yantai R, CHN	CW
4275.0	HPP	Panama R, PNR	CW
	TBA 5	TN Ankara, TUR	CW
4276.0	JNA	JN Tokyo, J	CW
4277.0	DHJ 59	GN Wilhelmshaven, D	CW
	HKB	Barranquilla R, CLM	CW
	UJO 5	Izmail R, UK, URS	CW
	VRT	Hamilton R, BER	CW
	ZLB 2	Awarua R, NZL	CW
4278.0	DZP	Novaliches R, PHL	CW
	HZG	Dammam R, ARS	CW
	XSH	Basuo R, CHN	CW
4279.0	VWA 1	Ramnagar Port R, IND	CW
	VWA 2	Hugli Port R, IND	CW
	VWA 509	Haldia Port R, IND	CW
	'98 DDX'	**SN Madrid, E**	**100 Bd: 0108 + 0441 msg**
4280.0	CWM ./..	many UN stations, URG	CW
	IDQ	IN Rome, I	CW
	PBC 34	**DN Goeree Island, NLD**	**75 Bd: 24 h ry**
	PPO	Olinda R, B	CW
	9VG 23	Singapore R, SNG	CW
4282.0	DVZ 6	Malabon R, PHL	CW
	LZL 2	Bourgas R, BUL	CW
4283.0	DHJ 59	GN Wilhelmshaven, D	CW
	RTEU	Aleksandrov-S. R, FE, URS	CW
	S9M	Sao Tome R, STP	CW
	UKW 3	Korsakov R, FE, URS	CW
	UQK	Riga R, LA, URS	CW
	XSV	Tianjin R, CHN	CW
	ZSJ 2	SAN Cape Town, AFS	CW
4284.0	A9M	Hamala R, BHR	CW
	DSD	Yosu F R, KOR	CW
4285.0	UAH	Tallinn R, ES, URS	CW
	UFL	Vladivostok R, SE, URS	CW

4285.0	VCS	CCG Halifax, NS, CAN	CW
	XFU	Veracruz R, MEX	CW
4286.0	CLY	Habana R, CUB	CW
	DZD	Antipolo R, PHL	CW
	GKA 2	Portishead R, G	CW
	VIX 2	RAN Canberra, ACT, AUS	CW
	VWC	Calcutta R/TS, IND	CW
4286.9	5RS	Toamasina R, MDG	CW
4287.0	FJY 4	Martin de Vivies R, AMS	CW
4288.0	DZZ	Manila R, PHL	CW
	XSQ	Guangzhou R, CHN	CW
	7TA 2	El Djaza'ir R, ALG	CW
4289.0	C9L 2	Maputo R, MOZ	CW
	C9L 6	Mozambique R, MOZ	CW
	PWZ	BN Rio de Janeiro, B	CW
	4XZ	IN Haifa, ISR	CW
4290.0	DZO	Bulacan R, PHL	CW
	TIM	Limon R, CTR	CW
	XSG 22	Shanghai R, CHN	CW
4290.5	OST 22	Oostende R, BEL	CW
4291.0	OBY 2	Paita R, PRU	CW
	ZSC 46	Cape Town R, AFS	CW
4292.0	CUL 4	Lisbon R, POR	CW
	D4D	Praia R, Santiago, CPV	CW
	EQ.	many R stations, IRN	CW
	IAR 24	Rome R, I	CW
	XFA	Acapulco R, MEX	CW
	XFP	Chetumal R, MEX	CW
	XYR 6	Yangon R, MYA	CW
4292.5	OMP 2	Prague R, TCH	CW
4293.0	XSO	Wenzhou R, CHN	CW
4293.5	EQY	IOEPC Mahshahr R, IRN	CW
4294.0	SXA 34	GN Piraeus, GRC	CW
	WNU	Slidell R, LA, USA	CW
4295.0	HWN	FN Paris, F	CW
	PK.	many R stations, INS	CW
	UHK	Batumi R, GE, URS	CW
	XSJ	Zhanjiang R, CHN	CW
	6VA 3	Dakar R, SEN	CW
4296.0	DZK	Bulacan R, PHL	CW
	IQX	Trieste R, I	CW
4297.0	CWT	Puerto Montevideo R, URG	CW
	TIM	Limon R, CTR	CW
4298.0	DVM 2	Makati R, PHL	CW
	FJA 41	Mahina R, Tahiti, OCE	CW
	NOJ	*USCG Kodiak, ALS*	*FAX $*
	OST 2	Oostende R, BEL	CW
	PPO	Olinda R, B	CW
4299.0	9KK 2	Safat R, KWT	CW
4299.5	SAB 2	Goeteborg R, S	CW
4300.0	HML	Namp'o R, KOR	CW
4300.2	GYC 2	RN London, G	CW
4300.3	**GYA**	**RN London, G**	**75 Bd: 24 h test**
4301.0	CBV	DGTMMM Valpar. R, CHL	CW
	VWM	Madras R, IND	CW
	ZPK	Asuncion R, PRG	CW
4302.0	A9M	Hamala R, BHR	CW
	ZA.	many R stations, ALB	CW
	'C'	Beacon Moscow, RU, URS	CW
4303.0	OXZ 2	Lyngby R, DNK	CW

4304.0	JFA	Matsudo F R, J	CW
	L2C	Buenos Aires R, ARG	CW
	L2Q	Mar del Plata R, ARG	CW
	L2X	Comod. Rivadavia R, ARG	CW
	'O'	Beacon Moscow, RU, URS	CW
4304.8	'L'	Bcn. Leningrad, RU, URS	CW
4305.0	UIB 2	Magadan R, FE, URS	CW
	XSZ	Dalian R, CHN	CW
4305.5	JNA	JN Tokyo, J	CW
4306.0	SPE 21	Szczecin R, POL	CW
4307.0	C9C 3	MN Maputo, MOZ	CW
	PW.	many BN stations, B	CW
	UMV	Murmansk R, RU, URS	CW
	UON	Baku R, AZ, URS	CW
	ZPK	Asuncion R, PRG	CW
4307.5	XFB	Ciudad del Carmen R, MEX	CW
	XFE	Ensenada R, MEX	CW
4308.0	HLG	Soul R, KOR	CW
	MGJ	RN Glasgow, G	CW
4308.5	DAN	Norddeich R, D	CW
4309.0	HZG	Dammam R, ARS	CW
4309.2	XSK 4	Haimen R, CHN	CW
4310.0	DYP	Cebu R, PHL	CW
	PWL	BN Corumba, B	CW
	WNU	Slidell R, LA, USA	CW
	XSI	Sanya R, CHN	CW
4311.0	PPL	Belem R, B	CW
4312.0	PPJ	Juncao R, B	CW
4313.0	FUG	FN La Regine, F	CW
	Y5M	Rügen R, D	CW
	9VG 33	Singapore R, SNG	CW
4314.0	LZW 2	Varna R, BUL	CW
	XSM	Xiamen R, CHN	CW
4314.5	GKH 2	Portishead R, G	CW
4314.9	GKN 2	Portishead R, G	CW
4315.0	URD	Leningrad R, RU, URS	CW
	XVG 22	Hai Phong R, VTN	CW
4316.0	A7D	Doha R, QAT	CW
	DYV	Iloilo R, PHL	CW
	GKM 2	Portishead R, G	CW
	JJC	*Tokyo R, J*	*FAX 120/288 or 120/576: 24 h J nx (text) or wx charts*
	VWB	Bombay R, IND	CW
	WSC	Tuckerton R, NJ, USA	CW
4316.9	GKO 2	Portishead R, G	CW
4317.0	ZSC 33	Cape Town R, AFS	CW
4317.5	GKI 2	Portishead R, G	CW
4318.0	DZU	Pasig R, PHL	CW
4319.0	OXZ 21	Lyngby R, DNK	CW
	SPH 23	Gdynia R, POL	CW
	XSG	Shanghai R, CHN	CW
4320.0	IAR 4	Rome R, I	CW
4321.0	PPL	Belem R, B	CW
4322.0	CBM	DGTMMM Magall. R, CHL	CW
	PWZ	BN Rio de Janeiro, B	CW
	9VG 54	Singapore R, SNG	CW
4323.0	UFH	Petropavl.-Km. R, FE, URS	CW
	VIC	Carnarvon R, WA, AUS	CW
4323.5	YQI 2	Constanta R, ROU	CW
4323.6	ELZ	Cape Palmas R, LBR	CW

4323.6	VIE	Esperance R, WA, AUS	CW
	VIO	Broome R, WA, AUS	CW
4324.0	DZH	Manila R, PHL	CW
4325.0	AQP 3	PN Karachi, PAK	CW
	HKC	Buenaventura R, CLM	CW
	LFW	Rogaland R, NOR	CW
	OBQ 5	Iquitos R, PRU	CW
	SUP	Port Said R, EGY	CW
4326.0	DYD 2	Cebu R, PHL	CW
	XSF	Lianyungang R, CHN	CW
4326.5	GKJ 2	Portishead R, G	CW
	JYO	Aqaba R, JOR	CW
4327.0	SVF 2	Athens R, GRC	CW
4328.0	CLS	Habana F R, CUB	CW
	DZM	Bulacan R, PHL	CW
	FFL 2	Saint Lys R, F	CW
	JOS	Nagasaki R, J	CW
	ZPK	Asuncion R, PRG	CW
4329.0	OMP 23	Prague R, TCH	CW
	PPO	Olinda R, B	CW
4330.0	DZJ	Bulacan R, PHL	CW
	UXN	Arkhangelsk R, RU, URS	CW
4331.0	HAR	Budapest R, HNG	CW
	SPE 22	Szczecin R, POL	CW
	WCC	Chatham R, MA, USA	CW
	XSA 2	Nanjing R, CHN	CW
4332.5	JCK	Kobe R, J	CW
4333.0	PPR	Rio de Janeiro R, B	CW
4334.0	DXD 9	Davao R, PHL	CW
	FUE	**FN Brest, F**	**75 Bd: 0030 tfc, 0757 clg FAAC** CW
	FUX	FN Le Port, REU	CW
	LSA 2	Boca R, ARG	CW
	PJC	Willemst. R, Curacao, ATN	CW
	VFR	CCG Resolute, NWT, CAN	CW
	XST	Qingdao R, CHN	CW
4335.0	PPJ	Juncao R, B	CW
	UDH	Riga R, LA, URS	CW
4336.0	DZI	Bacoor R, PHL	CW
	GKK 2	Portishead R, G	CW
		Prague Meteo, TCH	**0714-1652 wx**
4337.0	CBV	DGTMMM Valpar. R, CHL	CW
	SPH 21	Gdynia R, POL	CW
	ZPK	Asuncion R, PRG	CW
	3CA 5	Malabo R, GNE	CW
	9MG 6	Georgetown R, Pin. I., MLA	CW
4338.0	DYM	Cebu R, PHL	CW
	XSW	Kaohsiung R, TAI	CW
4338.5	HPP	Panama R, PNR	CW
4340.0	XSQ	Guangzhou R, CHN	CW
	9GX	Tema R, GHA	CW
4341.0	PPR	Rio de Janeiro R, B	CW
4342.0	IRM	CIRM Rome, I	CW
	LZL 2	Bourgas R, BUL	CW
	XUK 4	Kompong Som Ville R, CBG	CW
4343.0	SVA 2	Athens R, GRC	CW
	TUA 3	Abidjan R, CTI	CW
	UMZ	Valentin R, SE, URS	CW
	WLO	**Mobile R, AL, USA**	**SITOR-B: H+35 tfc list, wx** CW

4343.0	XSD	Yingkou R, CHN	CW
	XSL	Fuzhou R, CHN	CW
	YJM 4	Port-Vila R, Efate I., VUT	CW
4344.0	DUN	PN Manila, PHL	CW
4344.5	***GKS 2***	***Portishead R, G***	***scheduled***
	OMC	Bratislava R, TCH	CW
	OMK	Komarno R, TCH	CW
	OMP 21	Prague R, TCH	CW
4345.0	FUO	FN Toulon, F	CW
	UFM 3	Nevelsk R, FE, URS	CW
4346.0	CWA	Cerrito R, URG	CW
	DZO 9	Manila R, PHL	CW
	NMC	*USCG San Francisco, CA, USA*	*FAX $* CW
	XF. .	many PEMEX R stns., MEX	CW
	YUR 2	Rijeka R, YUG	CW
4347.5	5BA	Nicosia R, CYP	CW
4347.6	SUH 6	Alexandria R, EGY	CW
4348.0	DZN 4	Manila R, PHL	CW
4348.5	HSA 23	Bangkok R, THA	CW
	KLB	Seattle R, WA, USA	CW
4349.0	CBV	DGTMMM Valpar. R, CHL	CW
	CLS	Habana F R, CUB	CW
	EAD	Madrid R, E	CW
	EQM	Bushire R, IRN	CW
	EQN	Khomeini R, IRN	CW
	EQQ	Khark R, IRN	CW
	JCS	Choshi R, J	CW
	S7Q	Victoria R, Mahe, SEY	CW
	UXN	Arkhangelsk R, RU, URS	CW
4350.0		coast stations, channel 1	QSX 4170.5 kHz
	A9M	*Hamala R, BHR*	*scheduled*
	DCN	*Norddeich R, D*	*scheduled*
	IAR	*Rome R, I*	*scheduled*
	KFS	*San Francisco R, CA, USA*	*scheduled* CW
	OCJ 2	CPV Callao R, PRU	CW
	S9M	*Sao Tome R, STP*	*scheduled*
	TBB 5	TN Ankara, TUR	CW
	UAH	Tallinn R, ES, URS	SITOR-A: 0110+0552+1953+2005 R tts wtsca CW
	UHK	*Batumi R, GE, URS*	*scheduled*
	UMV	*Murmansk R, RU, URS*	*scheduled*
	9VG 74	Singapore R, SNG	SITOR-A: 1415-1807+2331 tts CW
4350.5		coast stations, channel 2	QSX 4171.0 kHz
	CUL	*Lisbon R, POR*	*scheduled*
	GKE 2	Portishead R, G	SITOR-A: 24 h tts SITOR-B: 1100+1700 tfc list CW
	LSD 836	*Buenos Aires R, ARG*	*scheduled*
	OXZ	*Lyngby R, DNK*	*scheduled*
	UFB	*Odessa R, UK, URS*	*scheduled*
	UFN	*Novorossiysk R, RU, URS*	*scheduled*
	UNM 2	*Klaipeda R, LI, URS*	*scheduled*
	WNU	*Slidell R, LA, USA*	*scheduled*
	ZLW	*Wellington R, NZL*	*scheduled*
4351.0		coast stations, channel 3	QSX 4171.5 kHz
	KFS	*San Francisco R, CA, USA*	*scheduled*

4351.0	LGW 2	Rogaland R, NOR	SITOR-A: 0114-2006 tts SITOR-B: 1900 N nx CW
	ODR 9	Beirut R, LBN	CW
	OST 26	*Oostende R, BEL*	*scheduled*
	UBE 2	Petropavl.-Km. R, FE, URS	0830 ry, R tts wtsca
	UBN	*Zhdanov R, UK, URS*	*scheduled*
	UFL	*Vladivostok R, SE, URS*	*scheduled*
	URD	*Leningrad R, RU, URS*	*scheduled*
	XSV	*Tianjin R, CHN*	*scheduled*
	Y5M	*Rügen R, D*	*scheduled*
4351.5		coast stations, channel 4	QSX 4172.0 kHz
	IAR	*Rome R, I*	*scheduled*
	LSD 836	*Buenos Aires R, ARG*	*scheduled*
	NMN	*USCG Portsm., VA, USA*	*scheduled*
	NMO	*USCG Honolulu, HWA*	*scheduled*
	UAH	Tallinn R, ES, URS	CW
	UCO	*Yalta R, UK, URS*	*scheduled*
	UQB	*Kholmsk R, FE, URS*	*scheduled*
	UXN	*Arkhangelsk R, RU, URS*	*scheduled*
	3AC 14	*Monte Carlo R, MCO*	*scheduled*
4352.0		coast stations, channel 5	QSX 4172.5 kHz
	A7D	*Doha R, QAT*	*scheduled*
	DCM	*Norddeich R, D*	*scheduled*
	FFT 21	Saint Lys R, F	SITOR-A: 0713 + 1325 + 1528 + 1806 tts SITOR-B: 0200 + 0800 + 1100 + 1300 + 2200 tfc list CW
	HZG	*Dammam R, ARS*	*scheduled*
	LZW	Varna R, BUL	CW
	SPB 21	Szczecin R, POL	SITOR-A: 0115 + 1206 + 1325 tts CW
	UBE 2	*Petropavl.-Km. R, FE, URS*	*scheduled*
	WLO	Mobile R, AL, USA	SITOR-B: H + 35 tfc list, wx CW
	YVG	La Guayra R, VEN	CW
	5RS	*Toamasina R, MDG*	*scheduled*
4352.5		coast stations, channel 6	QSX 4173.0 kHz
	HEC 14	Berne R, SUI	SITOR-A: 0619 + 2117 tts CW
	LGW 3	Rogaland R, NOR	SITOR-A: 24 h tts SITOR-B: 0700 + 1500 + 1700 + 1800 + 1900 N nx CW
	LSD 836	*Buenos Aires R, ARG*	*scheduled*
	SVS 2	*Athens R, GRC*	*scheduled*
	UPB	*Provideniya R, FE, URS*	*scheduled*
	VIP 31	Perth R, WA, AUS	SITOR-A: 1416 + 1732 tts CW
	WLO	*Mobile R, AL, USA*	*scheduled*
4353.0		coast stations, channel 7	QSX 4173.5 kHz
	DCL	*Norddeich R, D*	*scheduled*
	GKL 5	Portishead R, G	SITOR-A: 0118 tts CW
	UFM 3	*Nevelsk R, FE, URS*	*scheduled*
	VCS	*CCG Halifax, NS, CAN*	*scheduled*
	WAH	*Saint Thomas R, VIR*	*scheduled*
	XSG	*Shanghai R, CHN*	*scheduled*
	YUS	*Split R, YUG*	*scheduled*

4353.0	**Y5M**	**Rügen R, D**	**SITOR-A: 0245 + 0350 + 0554 + 1205 + 1910 + 2008 tts** **CW**
4353.5		**coast stations, channel 8**	**QSX 4174.0 kHz**
	FFT 22	***Saint Lys R, F***	***scheduled***
	GKP 2	**Portishead R, G**	**SITOR-A: 24 h tts** **CW**
	HPP	***Panama R, PNR***	***scheduled***
	YUR	***Rijeka R, YUG***	***scheduled***
	ZSC 61	***Cape Town R, AFS***	***scheduled*** **CW**
4354.0		**coast stations, channel 9**	**QSX 4174.5 kHz**
	CBV	***DGTMMM Valpar. R, CHL***	***scheduled***
	KLC	***Galveston R, TX, USA***	***scheduled***
	SAB 209	**Goeteborg R, S**	**SITOR-A: 1523-0918 tts** **CW**
	UJQ	***Kiyev R, UK, URS***	***scheduled***
	VAI	**CCG Vancouver, BC, CAN**	**SITOR-B: 0200 wx**
	YUR	***Rijeka R, YUG***	***scheduled***
4354.5		**coast stations, channel 10**	**QSX 4175.0 kHz**
	IAR	***Rome R, I***	***scheduled***
	LGW 5	***Rogaland R, NOR***	***scheduled***
	URB 2	***Klaipeda R, LI, URS***	***scheduled***
	WLO	***Mobile R, AL, USA***	***scheduled***
	Y5M	***Rügen R, D***	***scheduled***
4355.0		**coast stations, channel 11**	**QSX 4175.5 kHz**
	CBV	***DGTMMM Valpar. R, CHL***	***scheduled***
	PCH 26	**Scheveningen R, NLD**	**SITOR-A: 24 h tts** **SITOR-B: 1700 tfc list** **CW**
	UFH	***Petropavl.-Km. R, FE, URS***	***scheduled***
	WLO	**Mobile R, AL, USA**	**SITOR-A: 0206 tts** **CW**
	XSQ	***Guangzhou R, CHN***	***scheduled***
	YUW	***Bar R, YUG***	***scheduled***
4355.5		**coast stations, channel 12**	**QSX 4176.0 kHz**
	HEC 24	**Berne R, SUI**	**SITOR-A: 2118-0712 tts** **CW**
	HPP	***Panama R, PNR***	***scheduled***
	IDR 2	**IN Rome, I**	**CW**
	NMC	***USCG S. Franc., CA, USA***	***scheduled***
	NMF	***USCG Boston, MA, USA***	***scheduled***
	NRV	***USCG Apra Harbour, GUM***	***scheduled***
	OST 27	***Oostende R, BEL***	***scheduled***
	OXZ	**Lyngby R, DNK**	**SITOR-A: 24 h tts** **SITOR-B: 0030 + 0830 + 1630 Danish nx, 1730 tfc list** **CW**
	UGH 2	***Juzno R, FE, URS***	***scheduled***
4356.0		**coast stations, channel 13**	**QSX 4176.5 kHz**
	A7D	***Doha R, QAT***	***scheduled*** **CW**
	DCF	***Norddeich R, D***	***scheduled***
	KPH	***San Francisco R, CA, USA***	***scheduled***
	SVU 2	***Athens R, GRC***	***scheduled***
	UDK 2	***Murmansk R, RU, URS***	***scheduled***
	UKX	***Nakhodka R, SE, URS***	***scheduled***
	UQK	***Riga R, LA, URS***	***scheduled***
	WCC	***Chatham R, MA, USA***	***scheduled***
	3AC 24	***Monte Carlo R, MCO***	***scheduled***

4356.0	*9MG 13*	*Georgetown R, Pin. I., MLA*	*scheduled*
4356.5		coast stations, channel 14	QSX 4177.0 kHz
	GKQ 2	Portishead R, G	SITOR-A: 0258+0556+0802 tts CW
	IAR	*Rome R, I*	*scheduled* CW
	KPH	*San Francisco R, CA, USA*	*scheduled*
	SAB 214	Goeteborg R, S	SITOR-A: 0120+1948+2203 tts
	UDH	*Riga R, LA, URS*	*scheduled*
	VIS 61	Sydney R, NSW, AUS	SITOR-A: 1217+1417 tts CW
	WCC	Chatham R, MA, USA	SITOR-A: 0350 tts CW
	Y5M	Rügen R, D	SITOR-A: 0246+2009 tts CW
	8Q2	*Male R, MLD*	*scheduled*
4357.0	WORLDWIDE	COAST STATIONS DSC FREQ.	
4357.4		coast stations, ch 401	SSB QSX 4063.0 kHz
	CBM 9	ETAL Punta Arenas R, CHL	
	CBV 3	DGTMMM Hanga R. R, PAQ	
	CB./.	many DGTMMM R st., CHL	
	CLA 62	Habana R, CUB	
	CWF	Punta Carretas R, URG	
	DAP	Norddeich R, D	
	DZK 3	Manila R, PHL	
	HLS	Soul R, KOR	
	HPP 20	Panama R, PNR	
	HPQ 21	Panama Port R, PNR	
	HSA 8	Bangkok R, THA	
	KMI	Dixon R, CA, USA	
	LGN 2	Rogaland R, NOR	
	OXZ	Lyngby R, DNK	
	PKN	Balikpapan R, INS	
	PKP	Dumai R, INS	
	PNK	Jayapura R, INS	
	SAG	Goeteborg R, S	
	TAN	Izmir R, TUR	
	TAO	Trabzon R, TUR	
	UCZ	Provideniya R, FE, URS	
	UFA	Batumi R, GE, URS	
	UGE	Arkhangelsk R, RU, URS	
	UIK	Vladivostok R, SE, URS	
	UKB	Riga R, LA, URS	
	WAH	Saint Thomas R, VIR	
	YUS	Split R, YUG	
	ZPA	Asuncion R, PRG	
	ZSV 21	Walvis Bay R, NMB	
	5WA	Apia R, SMO	
	9PA	Banana R, ZAI	
4360.5		coast stations, ch 402	SSB QSX 4066.1 kHz
	EQN	Khomeini R, IRN	
	GKT 22	Portishead R, G	
	IAR	Rome R, I	
	SPC 23	Gdynia R, POL	
	S3D	Chittagong R, BGD	
	UMN	Murmansk R, RU, URS	
	XSG	Shanghai R, CHN	
	ZAD	Durres R, ALB	
	5RO	Mahajanga R, MDG	
	9GA	Takoradi R, GHA	

4360.5		Antalaha R, MDG		
		Manakara Sud R, MDG		
4363.6		coast stations, ch 403	SSB	QSX 4069.2 kHz
	CFH	CF Halifax, NS, CAN		
	DYS 9	Cebu R, PHL		
	ETC	Assab R, ETH		
	LGN 3	Rogaland R, NOR		
	OBC 3	Callao R, PRU		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
	VFA	CCG Inuvik, NWT, CAN		
	VFC	CCG C. Bay, NWT, CAN		
	VFU 6	CCG Copperm., NWT, CAN		
	WOM	Pennsuco R, FL, USA		
	XFA	Acapulco R, MEX		
	XFC	Cozumel R, MEX		
	XF. .	many PEMEX R stns., MEX		
	XVG 4	Hai Phong R, VTN		
	ZSQ 22	Port Elizabeth R, AFS		
	3AC 4	Monte Carlo R, MCO		
	5VA 8	Lome R, TGO		
4365.0	*RPJ 78*	*Tashkent Meteo, UZ, URS*	*FAX*	*// 3690.0 kHz $*
4366.7		coast stations, ch 404	SSB	QSX 4072.3 kHz
	A4M	Muscat R, OMA		
	CB./..	many DGTMMM R st., CHL		
	EQL	Anzali R, IRN		
	FFL 21	Saint Lys R, F		
	FJP 4	Noumea R, NCL		
	GYU	RN Gibraltar, GIB		
	KGN	Delcambre R, LA, USA		
	PP.	many R stations, B		
	SPO 22	Szczecin R, POL		
	S3D	Chittagong R, BGD		
	VI.	many R stations, AUS		
	XF./.	many PEMEX/R st., MEX		
	XSQ	Guangzhou R, CHN		
	4PB	Colombo R, SLK		
	4XO	Haifa R, ISR		
	6VA	Dakar R, SEN		
		Abidjan F R, CTI		
4369.8		coast stations, ch 405	SSB	QSX 4075.4 kHz
	CBV 3	DGTMMM Hanga R. R, PAQ		
	CB./..	many DGTMMM R st., CHL		
	CW./..	many UN stations, URG		
	EQM	Bushire R, IRN		
	FFL 23	Saint Lys R, F		
	PCG 21	Scheveningen R, NLD		
	PP.	many R stations, B		
	UBJ	Baku R, AZ, URS		
	UDN	Novorossiysk R, RU, URS		
	UJB	Astrakhan' R, RU, URS		
	UNM 2	Klaipeda R, LI, URS		
	VIS	Sydney R, NSW, AUS		
	WLC	Rogers City R, MI, USA		
	WLO	Mobile R, AL, USA		
	XSG	Shanghai R, CHN		
	Y5M	Rügen R, D		
	ZSC 25	Cape Town R, AFS		
	6YI	Kingston R, JMC		
	9VG 60	Singapore R, SNG		

4372.9		coast stations, ch 406	SSB	QSX 4078.5 kHz
	EHY	Madrid R, E		
	GKT 26	Portishead R, G		
	HKB	Barranquilla R, CLM		
	HKC	Buenaventura R, CLM		
	HZG	Dammam R, ARS		
	LPW 45	Bahia Blanca R, ARG		
	SPC 22	Gdynia R, POL		
	TFA	Reykjavik R, ISL		
	TFT	Hornafjoerdur R, ISL		
	XSV	Tianjin R, CHN		
	ZAV	Vlore R, ALB		
	3DP	Suva R, FJI		
	5BA 22	Nicosia R, CYP		
	5RD	Tolanaro R, MDG		
	5RN	Nosy Be R, MDG		
	5RS	Toamasina R, MDG		
		Morondava R, MDG		
4376.0		coast stations, ch 407	SSB	QSX 4081.6 kHz
	EHY	Madrid R, E		
	EQA	Abadan R, IRN		
	JBO	Tokyo R, J		
	LGN 4	Rogaland R, NOR		
	OB. .	many R stations, PRU		
	PCG 24	Scheveningen R, NLD		
	TAT	Canakkale R, TUR		
	V..	many CCG stations, CAN		
	Y5M	Rügen R, D		
	ZSD 37	Durban R, AFS		
	4PB	Colombo R, SLK		
	8PO	Bridgetown R, BRB		
	9VG 61	Singapore R, SNG		
4379.1		coast stations, ch 408	SSB	QSX 4084.7 kHz
	ELH	Harbel R, LBR		
	EQK	Khoramshahr R, IRN		
	HEB 14	Berne R, SUI		
	ICB	Genova R, I		
	KUQ	Pago Pago R, SMA		
	LPO 44	Puerto Deseado R, ARG		
	OSU 24	Oostende R, BEL		
	PJC	Willemst. R, Curacao, ATN		
	PKD	Surabaya R, INS		
	PKE	Amboina R, INS		
	P.. ...	many R stations, B		
	PZN	Paramaribo R, SUR		
	SPO 21	Szczecin R, POL		
	XFC	Cozumel R, MEX		
	XFL	Mazatlan R, MEX		
	XF. .	many PEMEX R st., MEX		
	YUR	Rijeka R, YUG		
	ZLW	Wellington R, NZL		
	ZXA 4	Tedut R, B		
	ZXF 3	Bavit R, B		
	ZZQ 8	Denor R, B		
	8Q2	Male R, MLD		
4382.2		coast stations, ch 409	SSB	QSX 4087.8 kHz
	A7D	Doha R, QAT		
	COB 34	Flota Atunera F R, CUB		
	COB 36	Flota Cubana F R, CUB		
	DZI	Bacoor R, PHL		

4382.2	DZO	Bulacan R, PHL		
	HZG	Dammam R, ARS		
	ICB	Genova R, I		
	LGN 5	Rogaland R, NOR		
	OXZ	Lyngby R, DNK		
	PP.	many R stations, B		
	P2M	Port Moresby R, PNG		
	P2R	Rabaul R, PNG		
	SAG	Goeteborg R, S		
	TAL	Antalya R, TUR		
	WAH	Saint Thomas R, VIR		
	WBL	Buffalo R, NY, USA		
	WLC	Rogers City R, MI, USA		
	WMI	Lorain R, OH, USA		
	XSU	Yantai R, CHN		
	9GX	Tema R, GHA		
	9PA	Banana R, ZA		
4385.3		coast stations, ch 410	SSB	QSX 4090.9 kHz
	EQQ	Khark R, IRN		
	GKT 20	Portishead R, G		
	HAR	Budapest R, HNG		
	LPC 27	Ushuaia R, ARG		
	PCG 23	Scheveningen R, NLD		
	S7Q	Victoria R, Mahe, SEY		
	VAI	CCG Vancouver, BC, CAN		
	VRT	Hamilton R, BER		
	WOO	Ocean Gate R, NJ, USA		
	XSQ	Guangzhou R, CHN		
	YJM	Port-Vila R, Efate I., VUT		
	Y5M	Rügen R, D		
	4XO	Haifa R, ISR		
	7TA 13	El Djaza'ir R, ALG		
	9HD	Valetta R, MLT		
4388.4		coast stations, ch 411	SSB	QSX 4094.0 kHz
	EHY	Madrid R, E		
	EQQ	Nowshahr R, IRN		
	FJY 4	Martin de Vivies R, AMS		
	HCG	Guayaquil R, EQA		
	LPM 51	Mar del Plata R, ARG		
	OSU 21	Oostende R, BEL		
	PKA	Sabang R, INS		
	PKG	Banjarmasin R, INS		
	S3D	Chittagong R, BGD		
	TAR	Zonguldak R, TUR		
	T3C	Takaronga R, T. Atl., KIR		
	VPS	Victoria Island R, HKG		
	WOO	Ocean Gate R, NJ, USA		
	4PB	Colombo R, SLK		
		Funafuti Island R, TUV		
4390.0	FUO	FN Toulon, F	CW	
4391.5		coast stations, ch 412	SSB	QSX 4097.1 kHz
	DAK	Norddeich R, D		
	DYV	Iloilo R, PHL		
	OBG 3	Pisco R, PRU		
	OBQ 5	Iquitos R, PRU		
	OBT 2	Talara R, PRU		
	UFH	Petropavl.-Km. R, FE, URS		
	UGH 2	Juzno R, FE, URS		
	WOM	Pennsuco R, FL, USA		
	YKM 7	Al Ladhiqiyah R, SYR		

4391.5	7OA	Aden R, YEM		
4394.6		coast stations, ch 413	SSB	QSX 4100.2 kHz
	A9M	Hamala R, BHR		
	CUL	Lisbon R, POR		
	DAH	Norddeich R, D		
	D3E	Luanda R, AGL		
	D4A	Mindelo R, S. Vicente, CPV		
	J5M	Bissau R, GNB		
	LPL 33	General Pacheco R, ARG		
	OHG 2	Helsinki R, FNL		
	PKT	Dili R, INS		
	SVN 2	Athens R, GRC		
	S3E	Khulna R, BGD		
	UDC	Zhdanov R, UK, URS		
	UJO 3	Izmail R, UK URS		
	UKQ 2	Nakhodka R, SE, URS		
	XFE	Ensenada R, MEX		
	XFF 3	PEMEX Minatitlan R, MEX		
	XFK 2	PEMEX La Paz R, MEX		
	XFP	Chetumal R, MEX		
	XFS 4	PEMEX Tecolutla R, MEX		
	XFU	Veracruz R, MEX		
	XVR 4	Vung Tau R, VTN		
	3AC 5	Monte Carlo R, MCO		
	7TA 14	El Djaza'ir R, ALG		
4397.7		coast stations, ch 414	SSB	QSX 4103.3 kHz
	DAJ	Norddeich R, D		
	OB. .	many R stations, PRU		
	PKC	Palembang R, INS		
	PKF	Ujung Pandang R, INS		
	TFA	Reykjavik R, ISL		
	TFX	Siglufjoerdur R, ISL		
	URD	Leningrad R, RU, URS		
	WLO	Mobile R, AL, USA		
	ZHH	Jamestown R, SHN		
	5BA 24	Nicosia R, CYP		
	5ZF	Mombasa R, KEN		
4400.8		coast stations, ch 415	SSB	QSX 4106.4 kHz
	ASK	Karachi R, PAK		
	FUB	FN Paris, F		
	LGN 6	Rogaland R, NOR		
	LPG 44	Rio Gallegos R, ARG		
	OXZ	Lyngby R, DNK		
	SVN 2	Athens R, GRC		
	VIB	Brisbane R, QLD, AUS		
	VID	Darwin R, NT, AUS		
	VIP	Perth R, WA, AUS		
	V8L 2	SHELL Bdr. Seri B. R, BRU		
	XSV	Tianjin R, CHN		
	XVR 4	Vung Tau R, VTN		
	5RL	Antseranana R, MDG		
	9MG 8	Georgetown R, Pin. I., MLA		
		Maintirano R, MDG		
		Mananjary R, MDG		
4403.9		coast stations, ch 416	SSB	QSX 4109.5 kHz
	EQI	Abbas R, IRN		
	FFL 22	Saint Lys R, F		
	FJA	Papeete R, Tahiti, OCE		
	HAR	Budapest R, HNG		
	KMI	Dixon R, CA, USA		

4403.9	OBB 4	Ilo R, PRU		
	OBY 2	Paita R, PRU		
	OBZ 3	Chimbote R, PRU		
	PP.	many R stations, B		
	S3D	Chittagong R, BGD		
	S3E	Khulna R, BGD		
	S9M	Sao Tome R, STP		
	TFA	Reykjavik R, ISL		
	TFX	Siglufjoerdur R, ISL		
	WOO	Ocean Gate R, NJ, USA		
	3BB	Port Louis Harbour R, MAU		
	6YI	Kingston R, JMC		
4407.0		coast stations, ch 417	SSB	QSX 4112.6 kHz
	KMI	Dixon R, CA, USA		
	OHG 2	Helsinki R, FNL		
	OMC	Bratislava R, TCH		
	OMK	Komarno R, TCH		
	OML	Decin R, TCH		
	OSU 27	Oostende R, BEL		
	P2M	Port Moresby R, PNG		
	P2R	Rabaul R, PNG		
	TAH	Istanbul R, TUR		
	UFM 3	Nevelsk R, FE, URS		
	VIM	Melbourne R, VIC, AUS		
	VIS	Sydney R, NSW, AUS		
	VPS	Victoria Island R, HKG		
	WOM	Pennsuco R, FL, USA		
	YUW	Bar R, YUG		
	9MG 8	Georgetown R, Pin. I., MLA		
4410.1		coast stations, ch 418	SSB	QSX 4115.7 kHz
	CFW	Vancouver R, BC, CAN		
	CLA 60	Habana R, CUB		
	DZJ	Bulacan R, PHL		
	DZZ	Manila R, PHL		
	D4A	Mindelo R, S. Vicente, CPV		
	D4D	Praia R, Santiago, CPV		
	JBO	Tokyo R, J		
	J2A	Jibuti R, DJI		
	LGN 7	Rogaland R, NOR		
	LPM 44	Mar del Plata R, ARG		
	OXZ	Lyngby R, DNK		
	PK. .	many R stations, INS		
	P.. ...	many R stations, B		
	SAG	Goeteborg R, S		
	SUH	Alexandria R, EGY		
	VCS	CCG Halifax, NS, CAN		
	WBL	Buffalo R, NY, USA		
	WGK	Saint Louis R, MO, USA		
	WLC	Rogers City R, MI, USA		
	WMI	Lorain R, OH, US		
	Z.. .	many R stations, B		
	4XO	Haifa R, ISR		
4413.2		coast stations, ch 419	SSB	QSX 4118.8 kHz
	ASK	Karachi R, PAK		
	CBV 3	DGTMMM Hanga R. R, PAQ		
	CB./..	many DGTMMM R st., CHL		
	DZS 4	Manila R, PHL		
	FFL 24	Saint Lys R, F		
	FUB	FN Paris, F		
	HLS	Soul R, KOR		

4413.2	OMP	Prague R, TCH		
	PCG 22	Scheveningen R, NLD		
	PP.	many R stations, B		
	TFA	Reykjavik R, ISL		
	TUA	Abidjan R, CTI		
	UDK	Murmansk R, RU, URS		
	VIA	Adelaide R, SA, AUS		
	VID	Darwin R, NT, AUS		
	VIT	Townsville R, QLD, AUS		
	WLO	Mobile R, AL, USA		
	YUR	Rijeka R, YUG		
	Y5M	Rügen R, D		
	5AT	Tripoli R, LBY		
	9KK 3	Safat R, KWT		
4416.3		coast stations, ch 420	SSB	QSX 4121.9 kHz
	EQR	Lavan R, IRN		
	IAR	Rome R, I		
	JYO	Aqaba R, JOR		
	LGN 8	Rogaland R, NOR		
	LZW	Varna R, BUL		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
	TAF	Samsun R, TUR		
	TAI	Iskenderun R, TUR		
	YVG	La Guayra R, VEN		
	9MG 21	Georgetown R, Pin. I., MLA		
4419.4		coast stations, ch 421 (WORLDWIDE CALLING FREQUENCY)	SSB	QSX 4125.0 kHz
4422.5		coast stations, ch 422	SSB	QSX 4128.1 kHz
	CKN	CF Vancouver, BC, CAN		
	COB 32	Flota del Golfo F R, CUB		
	COB 41	Cienfuegos F R, CUB		
	HAR	Budapest R, HNG		
	HEB 34	Berne R, SUI		
	OSU 22	Oostende R, BEL		
	PKO	Tarakan R, INS		
	PKR	Semarang R, INS		
	PKY 4	Sorong R, INS		
	URB 2	Klaipeda R, LI, URS		
	WOO	Ocean Gate R, NJ, USA		
	XSG	Shanghai R, CHN		
	ZMH ..	many Harbour R stns., NZL		
	5AB	Benghazi R, LBY		
4425.6		coast stations, ch 423	SSB	QSX 4131.2 kHz
	ASK	Karachi R, PAK		
	A7D	Doha R, QAT		
	DAI	Norddeich R, D		
	IAR	Rome R, I		
	PK. ..	many R stations, INS		
	PPF	Fortaleza R, B		
	SPC 21	Gdynia R, POL		
	WOM	Pennsuco R, FL, USA		
	XSQ	Guangzhou R, CHN		
	4XO	Haifa R, ISR		
	5OW	Lagos R, NIG		
4428.7		coast stations, ch 424	SSB	QSX 4134.3 kHz
	DZV 7	Navotas R, PHL		
	EQZ	IORC Abadan R, IRN		
	HEB 24	Berne R, SUI		
	HPP 20	Panama R, PNR		

4428.7	LGN 9	Rogaland R, NOR		
	LPB 5	Corrientes R, ARG		
	N..	many USCG stations		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
	SVN 2	Athens R, GRC		
	VI.	many R stations, AUS		
	XSV	Tianjin R, CHN		
	7TA 15	El Djaza'ir R, ALG		
4431.8		coast stations, ch 425	SSB	QSX 4137.4 kHz
	CB./..	many DGTMMM R st., CHL		
	HAR	Budapest R, HNG		
	JBO	Tokyo R, J		
	JYO	Aqaba R, JOR		
	LGN 20	Rogaland R, NOR		
	OSU 23	Oostende R, BEL		
	OXZ	Lyngby R, DNK		
	PY. 2.	many late Clube R stns., B		
	SVN 2	Athens R, GRC		
	S9M	Sao Tome R, STP		
	5AT	Tripoli R, LBY		
	9KK 32	Safat R, KWT		
	9MG 21	Georgetown R, Pin. I., MLA		
4434.9		coast stations, ch 426	SSB	QSX 4140.5 kHz
	CUB	Funchal R, MDR		
	CUG	Ponta Delgada R, AZR		
	GKV 26	Portishead R, G		
	JBO	Tokyo R, J		
	J5M	Bissau R, GNB		
	LGN 21	Rogaland R, NOR		
	LPZ 28	Trelew R, ARG		
	ODR 5	Beirut R, LBN		
	OXZ	Lyngby R, DNK		
	5BA 26	Nicosia R, CYP		
	7TA 16	El Djaza'ir R, ALG		
	8Q2	Male R, MLD		

4438.0 - 4650.0 Regions 1 + 2 = FIXED + MOBILE except aeronautical mobile (R)
Region 3 = FIXED + MOBILE except aeronautical mobile

4442.5	**RGC 72**	**Kiyev Meteo, UK, URS**	**24 h ry or wx**
4445.0	NPO	USN Subic Bay, PHL	CW
	RYP 26	**Khabarovsk Met., SE, URS**	**0125 wx**
4447.5	'U'	Bcn. Murmansk, RU, URS	CW
4455.0	**FUE**	**FN Brest, F**	**75 Bd: 0756 clg FAAC**
	RDM 73	**Tbilisi Meteo, GE, URS**	**0025-0658+1341+2124+2154 wx**
4462.5	***WLO***	***Mobile R, AL, USA***	***scheduled***
4464.5	**TRK**	**ASECNA Libreville, GAB**	**2240 "ch"**
4465.0		RFE Holzkirchen feeder, D	ISB
4466.5	**FDY**	**FAF Orleans, F**	**2119 ry**
4473.8	**HAR**	**HN Budapest, HNG**	**0354 wx**
4475.0	O.. .	many PELPER R stns., PRU	SSB
		Novosibirsk M., SW, URS	*FAX // 3635.0 kHz $*
4476.0	'P'	Bcn. Kaliningrad, RU, URS	CW
4480.0	UHO 2	Yuzhno-S. Meteo, FE, URS	CW
4480.3	**GYA**	**RN London, G**	**75 Bd: 0243 foxes**
4482.0	**BJZ 25**	**Wuhan Meteo, CHN**	**1220-2215 ry or wx**
4486.7		**MFA Cairo, EGY**	**SITOR-A: 1942+2014 ATU-A tfc**

4489.0	GFL 26	Bracknell Meteo, G	24 h ry or wx
4497.0	SOE 349	Warsaw Meteo, POL	24 h ry or wx
4498.5	'RFFH'	FF Marseille, F	ARQ-E 72 Bd: 2116 msg to 'RFFX' [ILD]
4500.0	GXQ	BA London, G	VFT: 1944 ry COMB
	OMZ	MFA Prague, TCH	CW
4500.5		UNID station (990)	0400 wx in UNID code
4510.0	9GC	Accra Air, GHA	0030 ry
4512.5	ETD 3	Addis Ababa Air, ETH	1332 msg, 1836 ry, 2324 msg
4515.0	RAB 44	Tashkent, UZ, URS	0530 s. on with R msg wtsca to ROV 2 CW
4515.5	OVK	DM Aarhus, DNK	75 Bd: 0640 ry
4516.7	*RXB 72*	*Khabarovsk Met., SE, URS*	*FAX $*
4519.0	*OFA*	*Helsinki R, FNL*	*scheduled; QSX 4175.0 kHz*
4525.0	*RPN 75*	*Kiyev Meteo, UK, URS*	*FAX 60/576: 0100+0130+0430+ 1930 chart Ukrainia; 90/576: 2220 SYNOPs Ukrainia, 2230 surface analysis + SYNOPs*
4526.0	*SUU*	*Cairo Meteo, EGY*	*FAX $*
4530.0	RGJ 62	Kuybishev Meteo, RU, URS	0224 wx *FAX // 3710.0 kHz*
4540.0	*WLO*	*Mobile R, AL, USA*	*scheduled*
4549.5	LRO 9	DyN Buenos Aires, ARG	75 Bd: 2200-0400 S nx
4550.0	OMD	Prague, TCH	CW
	RWW 79	*Moscow Meteo, RU, URS*	*FAX 120/576: 0255 ASXX RUMS Eurasia; 90/576: 1930 chart*
4560.0	RKR 74	Irkutsk Meteo, SE, URS	0910+2020-0111 wx
4560.3	YMB 20	Bandirma Meteo, TUR	1000+1546-0528 ry or wx
4562.5	JWT	NN Stavanger, NOR	CW
4562.6	FDG 21	FAF Cognac, F	CW
4563.0	YBL	Padang, INS	1423+1729 ry
4565.0		RFE Holzkirchen feeder, D	ISB
4570.0	HZN 46	Jeddah Meteo, ARS	100 Bd: 1743-0429 wx
4570.5	*DHJ 51*	*Grengel Meteo, D*	*FAX // 2342.5 kHz $*
4575.0		*Kuybishev Meteo, RU, URS*	*FAX // 2720.0 kHz*
4580.0	*RYP 27*	*Khabarovsk Met., SE, URS*	*FAX // 3250.0 kHz*
4581.5	ONY 27	NATO Mons, BEL	CW
4583.0	DDK 2	Hamburg Meteo, D	24 h ry or wx
4588.0	LRB 55	R Rivadavia feeder, ARG	SSB
4596.0	FDY	FAF Orleans, F	CW
4605.0	OST	Oostende R, BEL	SITOR-A: 24 h tts; QSX 4179.0 kHz CW
	'P'	Bcn. Kaliningrad, RU, URS	CW
4610.0	*GFA 22*	*Bracknell Meteo, G*	*FAX // 3289.5 kHz $*
	SXH	GN Khania, GRC	CW
4614.5	FDC	FAF Metz, F	CW
4618.0	'P'	Bcn. Kaliningrad, RU, URS	CW
4619.0		Göttingen, D	VFT: ARQ-E 72 Bd: 0700 msg [GNVHF]
4623.0	NGR	USN Kato Soli, GRC	CW
4632.0	XTU	ASECNA Ouagadoug., BFA	ARQ-M2 96 Bd: B: 2145 msg [VBA]
4632.5	FSB 53	INTERPOL Paris, F	SITOR-A: 24 h encrypted tfc CW
4635.0	VJC	RFDS Bkn. Hill, NSW, AUS	SSB
4648.0	'AU26'	GA Oggelshausen, D	CW

4650.0 - 4700.0 AERONAUTICAL MOBILE (R)

4651.0	AMS = 1D 6C 6G 10B 10E 13E 13F	SSB
4654.0	AMS = W I/II	SSB
4657.0	AMS = AFI CEP, 2A 2C 3B 6A 6E 13H	SSB
4660.0	AMS = 2B 2C 9B 10C 13D 13M	SSB
4663.0	AMS = 6G 10F 13E 13F 13K, VNCA	SSB
4666.0	AMS = CWP, 1C 10B 10D 10E	SSB
4669.0	AMS = MID SAM, 6G 10C 10D	SSB
4672.0	AMS = 2A 2B 3A 4A 6G 11B 13K	SSB
4673.0	**UNID station (1090)**	**ARQ-E 96 Bd: 0530 G tfc "kollege, da scheint auf der anderen verbindung was mit der leitung zu sein, die "lin" lampe brennt dauernd"; 0700+0804+0901 tfc**
4675.0	AMS = NAT, 6A 6E 9C 13G	SSB
4678.0	AMS = NCA, 10D 13I 14A 14G	SSB
4681.0	AMS = 2B 2C 3B 10B 12E	SSB
4684.0	AMS = 3A 3C 10E 13J 14B 14C	SSB
4687.0	AMS = W I/II/III	SSB
4690.0	AMS = 2A 2B 3A 6G 10B 13M	SSB
4693.0	AMS = 2B 2C 3 10B 12C 13I 14D	SSB
4696.0	AMS = 2 6G 9 10 13J	SSB

4700.0 - 4750.0 AERONAUTICAL MOBILE (OR)

4704.0	*AOK*	*USN Rota, E*	*FAX $*
4707.0	MRP	RAF High Wycombe, G	SSB
4722.0	MVU	RAF London, G	SSB
4730.0	GFW	RAF Akrotiri, CYP	SSB
	MKL	RAF Edinburgh, G	SSB
4732.0	**XTU**	**ASECNA Ouagadougou, BFA**	**2153 ry ARQ-M2 96 Bd: A: 0240 msg**
4740.5	FDY	FAF Orleans, F	CW
4742.0	MQP	RAF Upavon, G	SSB
		RAF Wideawake, ASC	SSB
4746.0	AFE	USAF MD. AFB, T., FL, USA	SSB
	CUW	PAF/USAF Lajes AFB, AZR	SSB

4750.0 - 4850.0

Region 1 = AERONAUTICAL MOBILE (OR) + BROADCASTING + FIXED + LAND MOBILE
Region 2 = BROADCASTING + FIXED + MOBILE except aeronautical mobile (R)
Region 3 = BROADCASTING + FIXED + Land Mobile

4766.0	*CCS*	*CN Santiago, CHL*	*FAX $*
4767.0	'P'	Bcn. Kaliningrad, RU, URS	CW

4774.5	'U'	Bcn. Murmansk, RU, URS	CW
4777.5	*IMB 51*	*Rome Meteo, I*	*FAX $*
4782.0	*GFE 21*	*Bracknell Meteo, G*	*FAX // 2618.5 kHz $*
4785.5	**DHJ 51**	**Grengel Meteo, D**	**100 Bd: 24 h ry or wx**
4787.0	**TJK**	**ASECNA Douala, CME**	**0239 ry**
4809.0	'P'	Bcn. Kaliningrad, RU, URS	CW
4813.0	**LZA 8**	**Sofia Meteo, BUL**	**24 h ry or wx**
4814.0	ONY 22	NATO Rheindahlen, D	SSB
4842.0	'P'	Bcn. Kaliningrad, RU, URS	CW

4850.0 - 4995.0 BROADCASTING + FIXED + LAND MOBILE

4850.0	RKS 71	Murmansk Meteo, RU, URS	CW
	RNJ 73	Minsk Meteo, BY, URS	CW
4852.2		**IA Tirano, I**	**1753 msgs**
4855.0	*NPM*	*USN Pearl Harbour, HWA*	*FAX $*
4856.0	LOL	AN Buenos Aires, ARG	CW
4863.5	**KRH 51**	**USE London, G**	**75 Bd: 24 h foxes**
4864.5	FDI	FAF Aix, F	CW
4867.0	UHF 3	Moscow, RU, URS	CW
4868.0		ENPA Valencia R, E	SSB
4876.0	**UMS**	**Moscow, RU, URS**	**0230 ry**
4877.5	FDY	FAF Orleans, F	CW
4886.0	KKN 44	USE Monrovia, LBR	CW
4895.0	ROU 70	Riga, LA, URS	CW
4899.0	'P'	Bcn. Kaliningrad, RU, URS	CW
4900.0	**RUU 78**	**Leningrad Meteo, RU, URS**	**0602-1625 ry or wx**
4902.0	*JMB 40*	*Tokyo Meteo, J*	*FAX 120/576: 1931 E/J nx (text)*
4903.0	**DHM 44**	**Grengel Meteo, D**	**100 Bd: 0428-1417+2002 wx**
4910.0	KWS 78	USE Athens, GRC	CW
	RGO 75	**Khabarovsk Met., SE, URS**	**0026-0909+1420+1932 wx**
4914.5	FDG 2	FAF Mont-de-Marsan, F	CW
4916.0		**München, D**	**VFT: ARQ-E 96 Bd: 0800 msg to Regensburg [REVBY]**
		Regensburg, D	**VFT: ARQ-E 96 Bd: 0801 msg to München [BYVRE]**
4919.9		**München, D**	**ARQ-E 96 Bd: 1345 tfc**
4923.0	**GXQ**	**BA London, G**	**VFT: 0048+0507+2145+2229 ryi**
			COMB
4956.5	KKN 39	Miami, FL, USA	CW
4963.0	*NDT*	*USN Yokosuka, J*	*FAX // 5258.0 kHz $*
4963.5	**DHN 37**	**Grengel Meteo, D**	**100 Bd: 0625-1900 ry or wx**
4967.0	*NDT*	*USN Yokosuka, J*	*FAX // 5262.0 kHz $*
4980.0	VJJ	RFDS Charlevl., QLD, AUS	SSB
4986.0	FLR 20	FA Paris, F	CW
4993.5	*ATA 55*	*Delhi Meteo, IND*	*FAX $*

4995.0 - 5003.0 STANDARD FREQUENCY AND TIME SIGNAL

4996.0	RWM	Moscow TS, RU, URS	CW
5000.0	ATA	Delhi TS, IND	SSB
	BPM	Xi'an TS, CHN	CW/SSB
	BSF	Taipei TS, TAI	CW/SSB
	HD 210A	Guayaquil TS, EQA	CW/SSB
	HLA	Taejon TS, KOR	COMB
	IAM	Rome TS, I	SSB
	IBF	Torino TS, I	SSB

5000.0	JJY	Tokyo TS, J	COMB
	LOL 1	AN Buenos Aires, ARG	CW/SSB
	RCH	Tashkent TS, UZ, URS	CW
	WWV	Fort Collins TS, CO, USA	COMB
	WWVH	Kihei TS, Maui Island, HWA	COMB
	YVTO	Caracas TS, VEN	CW

5003.0 - 5005.0 STANDARD FREQUENCY AND TIME SIGNAL + Space Research

5004.0	RID	Irkutsk TS, SE, URS	CW

5005.0 - 5060.0 BROADCASTING + FIXED <503>

5008.0	**EHG 8**	**Guardia Civil Pamplona, E**	**SITOR-A: 1905 msgs**
5010.0	VJQ	RFDS Kalgoorlie, WA, AUS	SSB
5020.0	**RWW 74**	**Moscow Meteo, RU, URS**	**24 h ry or wx**
5022.0	**DHL 28**	**LKA Bremen, D**	**ARQ-E 72 Bd: 0759+0941+1335+1440 encrypted tfc or msgs**
5024.5	**DHL 26**	**LKA Stuttgart, D**	**ARQ-E 96 Bd: 1448 encrypted msg**
5025.0	FDY	FAF Orleans, F	CW
5028.0	FDY	FAF Orleans, F	CW
5036.5	FDC 21	FAF Drachenbronn, F	CW
5038.0	FDY	FAF Orleans, F	CW
5045.0	VJT	RFDS Carnarvon, WA, AUS	SSB
5049.3		**Viseu, POR**	**SITOR-A: 1709 msg + tfc to Porto**
5055.0	**JYF**	**PETRA Amman, JOR**	**1400+1500 A nx, 1700-1900 E nx**

5060.0 - 5250.0 FIXED + Mobile except aeronautical mobile <521>

5064.0	9MB	MN Georgetown, P.I., MLA	CW
5076.0		*UNID station (1090)*	*FAX 120/576: 2245 Offenbach chart FBXX EDZW MID FL 250-450*
5080.0	*RVO 73*	*Moscow Meteo, RU, URS*	*(sp 5150.0 kHz)*
5082.8	**'RIFAGD'**	**IA Vallel. Pratameno, I**	**1835 msgs to 'RIFAG'**
5083.0	**DHJ 51**	**Grengel Meteo, D**	**100 Bd: 0002+0340+0915+1116+2310 wx**
5085.0	5IP	Dar es Salaam, TZA	SSB
	5IP 23	Bukoba, TZA	SSB
5086.8		**IA Treviso, I**	**1728 msg, s. off**
5089.0		IA Treviso, I	SSB
5090.0	FDY	FAF Orleans, F	CW
5092.5	*LZJ 2*	*Sofia Meteo, BUL*	*FAX $*
5097.0	CFH	CF Halifax, NS, CAN	CW
5097.5	**JAB 35**	**KYODO Tokyo, J**	**0720-0820+0830-0950+1000-1100+1400 E nx**
5100.0	*AXM 32*	*Canberra Met., ACT, AUS*	*FAX // 2628.0 kHz $*
5102.0	**GXQ**	**BA London, G**	**VFT: ARQ-M2 96 Bd: A: 0108 wx, 0850+2022 encrypted tfc**
			COMB
	RDE 72	*Kuybishev Meteo, RU, URS*	*FAX // 2720.0 kHz*
5102.5	**JMG 2**	**Tokyo Meteo, J**	**0148+1426+1635+1936 wx**
5104.0	**FIT 75**	**MOI Paris, F**	**ARQ-E3 100 Bd: 0930+1836+1915 tfc**
5107.0	**EPD**	**Tehran Air, IRN**	**1556-0445 ry or msgs [TKA]**
5110.0	*RYP 29*	*Khabarovsk Met., SE, URS*	*FAX // 3250.0 kHz*
	VJI	RFDS Mt. Isa, QLD, AUS	SSB

5112.0	4OC 3	TANJUG Belgrade, YUG	75 Bd: 0200+0700-1900 SC nx
5115.0	'VCCC'	Colombo Air, SLK	0050+2035+2225 ry
5117.0	*3MA 29*	*CNA Taipei, TAI*	*FAX 60/288 LSB ISD: 0201-1126 C nx (text); 120/576 LSB ISD: 1507 C nx (text)*
5117.5	TYE	ASECNA Cotonou, BEN	0000 msg, 0520 "ch"
5125.0	ZUM 273	Bronkhorstspruit, AFS	SSB
		RFE Holzkirchen feeder, D	ISB
5129.0	S2D	Dhaka Air, BGD	2120 "ch" [DBA]
5130.0	VJC	RFDS Bkn. Hill, NSW, AUS	SSB
5132.4	RIT	SN Vaygach, RU, URS	CW
5134.5	FIT 75	MOI Paris, F	ARQ-E 96 Bd: 1500 msg to 'RFFG' [IWV]
5140.0	RWW 73	Moscow Meteo, RU, URS	24 h ry or wx
5145.0	VJN	RFDS Cairns, QLD, AUS	SSB
	VNZ	RFDS Pt. Augusta, SA, AUS	SSB
5150.0	*RVO 73*	*Moscow Meteo, RU, URS*	*FAX // 53.6 kHz $*
5153.0	'RFGW'	MFA Paris, F	ARQ-E 72 Bd: 1650 msg
5160.0	IER 20	IFG Rome, I	0613-2307 ry or tfc or msgs
5164.0	RCV	SN Moscow, RU, URS	CW
5167.0	NRK	USN Keflavik, ISL	CW
5167.5	UHF 3	Moscow, RU, URS	CW
5175.0		Muqdisho, SOM	SSB
5178.0		UNID station (990)	ARQ-E 96 Bd: 1403 G tfc "mitteilung fuer draht kollegen bitte mal sendung einstellen habe techniker will maschine wexeln kkkkk"
5180.5	BAA 9	Beijing Meteo, CHN	1312-2305 ry or wx
5182.0	'P'	Bcn. Kaliningrad, RU, URS	CW
5184.0	FDY	FAF Orleans, F	CW
5185.0	*LRO 69*	*Buenos Aires Meteo, ARG*	*FAX $*
5187.2	ETD 3	Addis Ababa Air, ETH	0002-0418+1017 ry or msgs
5190.0	BZC 75	Urumqi Meteo, CHN	1617-0222 ry or wx
	ZUS 201	PB Skukuza, AFS	SSB
5192.5	'RFFF'	FF Lyon, F	ARQ-E 96 Bd: 1144+1753 msgs to 'RFFDC' [ILG]
5195.0	DFE 25	DW Cologne feeder, D	SSB
5200.0	9JP 2	Lusaka Police, ZMB	SSB
5203.0	FIT 75	MOI Paris, F	ARQ-E3 100 Bd: 1730 msg to FIT 69 [LYZ]
5208.0	FSB	INTERPOL Paris, F	SITOR-A: 0413-2222 encrypted tfc CW
5220.0	*RVO 73*	*Moscow Meteo, RU, URS*	*(sp 5150.0 kHz)*
	SUA 94	MENA Cairo, EGY	0600+1400-2300 A nx
5222.3	TYE	ASECNA Cotonou, BEN	ARQ-M2 96 Bd: A: 0620 "ch"; 2100 "ch", msg [UNA] B: 0618 wx with WMO headings
5224.0	'RFFH'	FF Marseille, F	ARQ-E 96 Bd: 0735+1035 msg to 'RFFGX' [IGA]
5227.0	VJJ	RFDS Charlevl., QLD, AUS	SSB
5236.0	FDY	FAF Orleans, F	CW
5237.5	FDC	FAF Metz, F	CW
5238.1	'RETENP'	San Sebastian, E	0515+1655 msgs
5240.0	4OC 2	TANJUG Belgrade, YUG	1700-0400 E nx
5240.5	FDC 22	FAF Contrexeville, F	CW
5242.0	UMS	Moscow, RU, URS	CW

5250.0 - 5450.0 FIXED + MOBILE except aeronautical mobile

5254.0	**'RFFE'**	**FF Bordeaux, F**	**ARQ-E 72 Bd: 1711 msg**
5258.0	*NPN*	*USN Apra Harbour, GUM*	*FAX $*
5260.0	VJK	RFDS Meekath., WA, AUS	SSB
		MFA Tunis, TUN	**1700 A msgs**
5262.0	*NPN*	*USN Apra Harbour, GUM*	*FAX $*
5265.0	**FUB**	**FN Paris, F**	**0200 + 1800 + 1907 encrypted msgs after "KKKK..."**
5270.0	FDG 2	FAF Mont-de-Marsan, F	CW
5275.0	**SUA 211**	**MENA Cairo, EGY**	**1700 E/F nx, 1800 + 1900 E nx, 2000 F nx, 2100 + 2200 E nx**
5280.0	DFE 28	DW Cologne feeder, D	SSB
	RKR 76	*Irkutsk Meteo, SE, URS*	*FAX 60/576: 0020 + 0410 + 0500 + 1600 + 1820 + 1915 + 2355 charts*
5285.0	*RBX 71*	*Tashkent Meteo, UZ, URS*	*FAX // 3280.0 kHz $*
5287.0	**A2SK**	**Gaborone Air, BOT**	**0535 ry**
	MKA	RAF London, G	SSB
5291.6	TBO 2	TN Izmir, TUR	CW
5293.0	FDY	FAF Orleans, F	CW
5295.0		RFE Holzkirchen feeder, D	ISB
5300.0	VJB	RFDS Derby, WA, AUS	SSB
	VJN	RFDS Cairns, QLD, AUS	SSB
	VKF	RFDS Wyndh., WA, AUS	SSB
5302.5	*CAN 6D*	*Presidente Eduardo Frei Montalva Meteo, CHL*	*FAX 120/576: 1530 ASCH AAEF 0000, ASCH AAEF 1200; 2130 ASCH AAEF 1800* CW
5305.0	'S'	Bcn. Arkhangelsk, RU, URS	CW
5306.0	'C'	Beacon Moscow, RU, URS	CW
5306.2	'P'	Bcn. Kaliningrad, RU, URS	CW
5308.0	'O'	Beacon Moscow, RU, URS	CW
5308.5	FAC 20	FA Metz, F	SSB
	FAC 80	FA Dijon, F	SSB
	'Z'	Bcn. Mukachevo, UK, URS	CW
5308.8	'L'	Bcn. Leningrad, RU, URS	CW
5310.0		Berbera, SOM	CW/SSB
5312.0	**'DFZG'**	**MFA Belgrade, YUG**	**75 Bd: 0500 ry, 0530 msg (SC press review), 0655 msg, 0912 ry**
5315.0	**BJZ 27**	**Wuhan Meteo, CHN**	**1149-0057 ry or wx**
5316.0	**'RFFH'**	**FF Marseille, F**	**ARQ-E 96 Bd: 1005 msg to 'RFGXX' [IGA]**
5317.5	**5AF**	**Tripoli Air, LBY**	**2005 msg**
5320.0	NIK	USCG Boston, MA, USA	CW
5322.0	RCV	SN Moscow, RU, URS	CW
5325.0	*RND 79*	*Moscow Meteo, RU, URS*	*FAX 90/576: 1630 chart; 60/576: 1650 + 1920 + 2250 + 2330 chart Black Sea area*
5335.0	**RDM 78**	**Tbilisi Meteo, GE, URS**	**1422-0434 wx**
	ROF 76	*Novosibirsk M., SW, URS*	*FAX // 3635.0 kHz $*
5336.5	**'RPFNG'**	**PN Lisbon, POR**	**1638 ry**
5342.0	FDY	FAF Orleans, F	CW
5343.5		**Ras Shukheir Oilwell, EGY**	**SITOR-A: 0510 + 1825 msg to Ras Gharib**
5345.0	**RSW 71**	**Arkhangelsk M., RU, URS**	**1426-0346 R ry wtsca or wx wla**
5347.0	*RSW 71*	*Arkhangelsk M., RU, URS*	*FAX 60/576: 1630 + 2310 chart*
5355.0	*RND 77*	*Moscow Meteo, RU, URS*	*FAX // 2815.0 kHz $*
5357.0	**'RFFF'**	**FF Lyon, F**	**ARQ-E 96 Bd: 1200 + 1230 msg to 'RFFG' [IWV]**

5360.0	VJQ	RFDS Kalgoorlie, WA, AUS	SSB
5368.0	IBA	USN Napoli, I	0915+1813 foxes
5370.0	FDY	FAF Orleans, F	CW
5374.5	'U'	Bcn. Murmansk, RU, URS	CW
5376.5	OST 28	Oostende R, BEL	SITOR-A: 2305 tfc list SITOR-B: 0400+0900+1400 Dutch nx CW
5378.5	EHQ	Guardia Civil Valencia, E	SITOR-A: 1930 msg
5380.0	'RETWL'	Guardia Civil Logron, E	SITOR-A: 1853 msg to 'RETWLL' SITOR-B: 1850 msg
5381.5	'RETWL'	Guardia Civil Logron, E	SSB
5396.6	'RFFA'	MOD Paris, F	ARQ-M2 200 Bd: A: 1640-0110 msgs or wx or encrypted tfc after "KKKK..." to 'RFQP' [PQA] B: 1639-0402 msgs or wx or "revue de la presse quotidienne" (F nx) or encrypted tfc after "KKKK..." to 'RFQP' [PQA, PQB]
5400.0	YOG 37	Bucharest Meteo, ROU	0505-1614 ry or wx
5404.0	'RFGX'	FF Baden-Baden, D	ARQ-E 96 Bd: 1112+1358+2034 msg to 'RFFA' [IHA]
5405.0	*JMJ 2*	*Tokyo Meteo, J*	*FAX // 3365.0 kHz $*
5410.0	VJD	RFDS Alice Spr., NT, AUS	SSB
5420.0	OMD	Prague, TCH	CW
		Kuybishev Meteo, RU, URS	*FAX 90/576: 0355+0420+0510+1920+2220 chart Russia*
5426.0	KRH 50	USE London, G	CW
5430.0	RVM 45	Tashkent Meteo, UZ, URS	1441+1558+1849-0453 wx
5439.0	'RFGX'	FF Baden-Baden, D	ARQ-E 96 Bd: 1157+1235+1651 msg to 'RFFH' [IKB]
5443.0	KWL 90	USE Manila, PHL	CW
5445.0	VJI	RFDS Mt. Isa, QLD, AUS	SSB
5446.5	FDC 22	FAF Contrexeville, F	CW

5450.0 - 5480.0 Region 1 = AERONAUTICAL MOBILE (OR) + FIXED + LAND MOBILE
Region 2 = AERONAUTICAL MOBILE (R)
Region 3 = AERONAUTICAL MOBILE (OR) + FIXED + LAND MOBILE

5451.0		AMS = 10F 11B 12F 12H 13I 13J	SSB
5452.0	*HZN*	*Jeddah Meteo, ARS*	*FAX // 3560.0 kHz $*
5454.0		AMS = 10 12E 13F 13J	SSB
5455.0	LZF 9	Sofia Meteo, BUL	0601-1721 wx
5457.0		AMS = 10C 13N	SSB
5458.0	'RFFF'	FF Lyon, F	ARQ-E 96 Bd: 1440 msg to 'RFFL' [ILG]
5460.0		AMS = 10B 10E 12C 13D	SSB
		VoA Tanger, MRC	75 Bd: 2100-0400 E nx
5463.0		AMS = 11B 13H 13K 13M	SSB
5466.0		AMS = 10B 13I	SSB
5469.0		AMS = 11B 13G	SSB
5469.5		UNID meteo station (190)	1930 wx fm POL (SYNOPs with 555 national groups), G, NLD
5470.0	RKC 29	TASS Moscow, RU, URS	0415-0545 E nx
5472.0		AMS = 10A 10D 13H	SSB

5474.0	CSY	Santa Maria Air, AZR	0240 "ch", 0327 ry, 0420+0440 "ch", 1939 ry
5475.0		AMS = 10A 10D 12E 12F 13G	SSB
5480.0 - 5680.0		**AERONAUTICAL MOBILE (R)**	**<501 505>**
5481.0		AMS = 2A 2C 4B 6G 7D 9C 10C 10E 12E 12J 13E 13F 13K 14D 14G	SSB
5484.0		AMS = 1B 3A 3C 6A 9B 10A 10D 12C 12G 13H	SSB
5487.0		AMS = 2C 6G 10C 12E	SSB
5490.0		AMS = 2A 2B 3A 6D 10A 10D 12C 13C	SSB
5493.0		AMS = AFI, 3B 6G	SSB
5496.0		AMS = 2A 2B 3A 6F 10A 10D 12C 12J 13I	SSB
5499.0		AMS = 3B 6G, VAFI	SSB
5502.0		AMS = 2A 2B 3A 6B 10C 12C 13M	SSB
5505.0		AMS = 3B 6G, VEUR	SSB
5508.0		AMS = 2B 2C 6F 7 9B 11B 12F 13N	SSB
5511.0		AMS = 3A 5B 6G	SSB
5514.0		AMS = 2C 3B 3C 6E 11B 13C	SSB
5517.0		AMS = 3A 6G	SSB
5520.0		AMS = CAR, 2B 2C 3B 6D 7E	SSB
5523.0		AMS = 2A 6G 9B 11B 12G 13I	SSB
5526.0		AMS = SAM, 2B 2C 3B 5D 6E 10F 14	SSB
5527.0	*BAF 6*	*Beijing Meteo, CHN*	*FAX $*
5529.0		AMS = W I/II	SSB
5532.0		AMS = W I/V	SSB
5535.0		AMS = W I/IV	SSB
5538.0		AMS = W II/V	SSB
5541.0		AMS = W I/IV	SSB
5544.0		AMS = W II/V	SSB
5547.0		AMS = CEP, 2A 4A 6G 7F 13H 13K	SSB
5550.0		AMS = CAR, 2B 2C 3B 5D 6C 6E 14G	SSB
5553.0		AMS = 6G 10B 13C	SSB
5556.0		AMS = 2 3 12F	SSB
5559.0		AMS = SP, 2A 4A 6G 10E 12G 13J	SSB
5562.0		AMS = 2C 3B 3C 10C 12D 13D	SSB
5565.0		AMS = SAT, 6G 9B 10A	SSB
5568.0		AMS = 1B 3A 3C 5B 6D 7F 10B 12 13J	SSB
5571.0		AMS = 6G 11B 13C	SSB
5574.0		AMS = CEP, 2B 2C 4B 6D 13G	SSB

5577.0		AMS = 1C 5A 6G 7B 10E 13C 13J 13K	SSB
5580.0		AMS = 3A 3B 6A 6C 14G, VCAR	SSB
5583.0		AMS = 1E 5A 5C 6G 7B 9 10B 12E 12F 12H 13E 13F	SSB
5586.0		AMS = 2C 3C 10D	SSB
5589.0		AMS = 12C, VMID	SSB
5592.0		AMS = 6G 7C 9D, VNAT	SSB
5595.0		AMS = 1C 2B 6B 10C 12E	SSB
5598.0		AMS = NAT, 6G	SSB
5601.0		AMS = 3A 3B 6A, VSAM	SSB
5604.0		AMS = 2A 2C 4B 6G 10 12A 12E 12F 13E 13F 13K 14	SSB
5607.0		AMS = 2B	SSB
5610.0		AMS = 6G	SSB
5613.0		AMS = 2B 12C	SSB
5616.0		AMS = NAT, 6G	SSB
5619.0		AMS = 2B 12J	SSB
5621.0		**MFA Tunis, TUN**	**0638 A msgs**
5622.0		AMS = 1D 6G	SSB
5625.0		AMS = 3A 5B 6B 10D	SSB
5628.0		AMS = NP, 1D 6G	SSB
5631.0		AMS = 6D 10A	SSB
5634.0		AMS = INO, 6G	SSB
5637.0		AMS = 1D 3C	SSB
5640.0		AMS = 6G	SSB
5643.0		AMS = SP, 3C	SSB
5646.0		AMS = NCA, 12G	SSB
5649.0		AMS = NAT SEA	SSB
5652.0		AMS = AFI CWP	SSB
5655.0		AMS = EA SEA	SSB
5658.0		AMS = AFI MID	SSB
5661.0		AMS = CWP EUR	SSB
5664.0		AMS = NCA	SSB
5667.0		AMS = MID	SSB
	'F'	Bcn. Vladivostok, SE, URS	CW
5670.0		AMS = EA	SSB
5673.0		AMS = VSEA	SSB
5676.0		AMS = VNCA	SSB

5680.0 - 5730.0 AERONAUTICAL MOBILE (OR) <501 505>

5680.0	WORLDWIDE	CALLING/DISTRESS/SAFETY FREQ.	CW/SSB
5684.0	CFH	CF Halifax, NS, CAN	SSB
5685.0	ILI	IAF Brindisi, I	SSB
5688.0	AFE	USAF MD. AFB, T., FL, USA	SSB
	AFL	USAF Lg. AFB, L.,ME, USA	SSB
5690.0	DHM 95	CF Lahr, D	SSB
	MPF	RAF Brize Norton, G	SSB
5696.0	N..	many USCG stations	SSB
5703.0	AJE	USAF Croughton, G	SSB
5711.0		**UNID station (1190)**	**1822 wx in UNID code + METARs fm BUL (LBIN = Vidin?!)**
5713.0	MQP	RAF Upavon, G	SSB
5718.0	CFH	CF Halifax, NS, CAN	SSB
	CJX	CF St. John's, NFLD, CAN	SSB

5730.0 - 5950.0 Region 1 = FIXED + LAND MOBILE
Region 2 = FIXED + MOBILE except aeronautical mobile (R)
Region 3 = FIXED + Mobile except aeronautical mobile (R)

5730.0	**BAA 24**	**Beijing Meteo, CHN**	**0037-0943 wx**
	MQP	RAF Upavon, G	SSB
5730.5	**5UA**	**ASECNA Niamey, NGR**	**ARQ-M2 96 Bd: B: 0354+0446 msgs [NOB]**
5731.0	**YRR 4**	**Bucharest Meteo, ROU**	**0410-2223 ry or wx**
5733.0	**HZJ**	**Jeddah Air, ARS**	**1722-0344 msg [JSA]**
5737.5	ONY 27	NATO Mons, BEL	CW
5738.0	**9GC**	**Accra Air, GHA**	**0550+0615+0630 ry**
5740.0	**HZN**	**Jeddah Meteo, ARS**	**1626-0435 ry or wx**
	RKR 78	**Irkutsk Meteo, SE, URS**	**1412 wx**
	'RFFC'	**FF Lille, F**	**ARQ-E 96 Bd: 1347+1400 msgs to 'RFFEC' [IAA]**
5745.0		VoA Greenvl. fdr., NC, USA	ISB
5746.0		**Czech E Warsaw, POL**	**75 Bd: 1345 msgs to OMZ**
5748.0	FDC	FAF Metz, F	CW
5750.0	*WLO*	*Mobile R, AL, USA*	*scheduled*
5755.0	*AXI 32*	*Darwin Meteo, NT, AUS*	*FAX $*
	RZX 5	*Magadan Meteo, FE, URS*	*FAX 60/576: 1944-1114 charts*
5760.0	OVG 5	DM Fredrikshavn, DNK	CW
5765.0	*RYO 79*	*Novosibirsk M., SW, URS*	*FAX $*
5767.5	**HBD 20**	**MFA Berne, SUI**	**SITOR-A: 0658+1635 msg**
5777.5	*LRO 26*	*AP Buenos Aires, ARG*	*FAX 60/576 LSB ISD: 1345-0421 pix with S text*
5779.0	FVA 80	Rosny sur Bois Gend., F	CW
5783.0	**5TY**	**ASECNA Nouakchott, MTN**	**ARQ-M2 96 Bd: A: 0042+0407 msg, 0500+2200 "ch" without AFTN heading** **B: 0331+2200 msg [KDA]**
5784.5	'U'	Bcn. Murmansk, RU, URS	CW
5785.0	*AOK*	*USN Rota, E*	*FAX // 4704.0 kHz $*
	RCR 72	**Khabarovsk Met., SE, URS**	**0028-1235 ry or wx**
5786.0	**FIT 13**	**Marseille Prefecture, F**	**ARQ-E3 100 Bd: 1410+1800 msg**
5788.0	**FIT 35**	**Rennes Prefecture, F**	**ARQ-E3 100 Bd: 0655 operational msg to FIT 75 [RNY]**
5790.0	*RRZ 70*	*Petrop.-Km. Met., FE, URS*	*FAX 90/576: 0920-1108 charts*
5794.5	**FDY**	**FAF Orleans, F**	**1636 ry**
5803.5	**9GC**	**Accra Air, GHA**	**2005-0600 ry**
5807.0	*ZKLF*	*Auckland Meteo, NZL*	*FAX $* CW
	'RFFH'	**FF Marseille, F**	**ARQ-E 96 Bd: 0350+1644 tfc**
5810.0	HLL 2	Soul Meteo, KOR	CW
	IPR 34	**Genova Police, I**	**SITOR-A: 0808+1015 msg + tfc to IPR 44**
	IPR 44	**Rome Police, I**	**SITOR-A: 0808+1015 tfc to IPR 34**
5813.0	**MKK**	**RAF London, G**	**VFT: 0458 ryi** COMB
	UMS	Moscow, RU, URS	CW
5815.0	*BUA 21*	*XINHUA Beijing, CHN*	*FAX 120/288: 2334-1538 C nx (text)*
5818.0	**'RFFG'**	**FF Strasbourg, F**	**ARQ-E 72 Bd: 1011 msg to 'RFFC' [IVW]**
5818.5	**9HA**	**Luqa Air, MLT**	**0400 "ch", 0424 msg, 1638+1845+2247 ry**
5820.0	FDY	FAF Orleans, F	CW
	3BT	Vacoas Meteo, MAU	SSB

5822.0	FDI	FAF Aix, F	CW
5844.0	**BLM 21**	**Chengdu Meteo, CHN**	**0028+0050 wx, 0944 ry**
5845.0	VNZ	RFDS Pt. Augusta, SA, AUS	SSB
5847.5	**'RFFG'**	**FF Strasbourg, F**	**ARQ-E 96 Bd: 0920 msg to 'RFFA' [IXV]**
5848.0	**TUH**	**ASECNA Abidjan, CTI**	**1736-0617 ry or msgs [IGA]**
5850.0	*OXT*	*Copenhagen Meteo, DNK*	*FAX $*
	VJB	RFDS Derby, WA, AUS	SSB
5852.0	***WLO***	***Mobile R, AL, USA***	***scheduled***
5857.5	*HLL 8*	*Soul Meteo, KOR*	*FAX $*
5862.0	'P'	Bcn. Kaliningrad, RU, URS	CW
5865.0	VJN	RFDS Cairns, QLD, AUS	SSB
5866.8	**GYA**	**RN London, G**	**75 Bd: 0212+0225+0800 foxes**
5867.0	**YIL 68**	**INA Baghdad, IRQ**	**1300-2200 A nx**
5867.5	'U'	Bcn. Murmansk, RU, URS	CW
5868.0	FDY	FAF Orleans, F	CW
5870.0	NAR	USN Key West, FL, USA	CW
5879.0	**7OC**	**Khormaksar Air, YEM**	**0140 msg, 0150+0156+2030 ry**
5881.0	RMP	SN Kaliningrad, RU, URS	CW
5887.5	**IMB 2**	**Rome Meteo, I**	**24 h ry or wx**
5890.0	*RBV 78*	*Tashkent Meteo, UZ, URS*	*FAX // 3690.0 kHz $*
5898.6	*WLC*	*Rogers City R, MI, USA*	*FAX 120/576: 0330+1530 MAFOR, 1830 weather charts, 2130 MAFOR*
5900.0	**5AF**	**Tripoli Air, LBY**	**(hx 2950.0 kHz)**
5903.0	**SOF 290**	**PAP Warsaw, POL**	**1600 E nx**
5909.0	BMB	Taipei Meteo, TAI	CW
5912.0	RCV	SN Moscow, RU, URS	CW
5916.5	'U'	Bcn. Murmansk, RU, URS	CW
5917.5	AOK	USN Rota, E	CW
5920.0	'K'	Bcn. Khabarovsk, SE, URS	CW
5922.0	'X'	Beacon Prague, TCH	CW
5923.0	**SNN 299**	**MFA Warsaw, POL**	**75 Bd: 0553-1712 ry or msgs or msgs (5fgs)**
5932.0	*OFA*	***Helsinki R, FNL***	***scheduled; QSX 6259.0 kHz***
	'DJR'	**Jibuti Air, DJI**	**0350 ry**
5945.0	HXP	Saint Denis Meteo, REU	SSB

5950.0 - 6200.0 BROADCASTING

6200.0 - 6525.0 MARITIME MOBILE <500A 500B 520 520B 522>

6200.0		ship stations, ch 601	SSB	QSX 6506.4 kHz
6203.1		ship stations, ch 602	SSB	QSX 6509.5 kHz
6204.0		Libreville Port R, GAB	SSB	
6206.2		ship stations, ch 603	SSB	QSX 6512.6 kHz
	OED	DDSG Vienna R, AUT		
6208.5		**RGB Cairo, EGY**	**1907 msgs to TOTAL Cairo**	
6209.3		ship stations, ch 604	SSB	QSX 6515.7 kHz
6210.4		Port of Spain R, TRD	SSB	
6212.4		ship stations, ch 605	SSB	QSX 6518.8 kHz
	WGK	Saint Louis R, MO, USA		
6215.0		SUPPLEMENTARY WORLDWIDE CALLING/DISTRESS/SAFETY F.	SSB	
6215.5		ship stations, ch 606 (WORLDWIDE CALLING FREQ.)	SSB	QSX 6521.9 kHz

6218.6	WORLDWIDE	COAST AND SHIP STATIONS SIMPLEX FREQUENCY	SSB
6221.6	WORLDWIDE	COAST AND SHIP STATIONS SIMPLEX FREQUENCY	SSB
6244.5	'U'	Bcn. Murmansk, RU, URS	CW
6256.5		ship stations, channel 1	QSX 6494.5 kHz
6257.0		ship stations, channel 2	QSX 6495.0 kHz
6257.5		ship stations, channel 3	QSX 6495.5 kHz
6258.0		ship stations, channel 4	QSX 6496.0 kHz
6258.5		ship stations, channel 5	QSX 6496.5 kHz
6259.0		ship stations, channel 6	QSX 6497.0 kHz
		ship stations	QSX 5932.0 kHz (OFA)
6259.5		ship stations, channel 7	QSX 6497.5 kHz
6260.0		ship stations, channel 8	QSX 6498.0 kHz
6260.5		ship stations, channel 9	QSX 6498.5 kHz
6261.0		ship stations, channel 10	QSX 6499.0 kHz
6261.5		ship stations, channel 11	QSX 6499.5 kHz
6262.0		ship stations, channel 12	QSX 6500.0 kHz
6262.5		ship stations, channel 13	QSX 6500.5 kHz
6263.0		ship stations, channel 14	QSX 6501.0 kHz
	'P'	Bcn. Kaliningrad, RU, URS	CW
6263.5		ship stations, channel 15	QSX 6501.5 kHz
6264.0		ship stations, channel 16	QSX 6502.0 kHz
6264.5		ship stations, channel 17	QSX 6502.5 kHz
6265.0		ship stations, channel 18	QSX 6503.0 kHz
6265.5		ship stations, channel 19	QSX 6503.5 kHz
6266.0		ship stations, channel 20	QSX 6504.0 kHz
6266.5		ship stations, channel 21	QSX 6504.5 kHz
6267.0		ship stations, channel 22	QSX 6505.0 kHz
6267.5		ship stations, channel 23	QSX 6505.5 kHz
6268.0		ship stations, non-paired	
	WORLDWIDE	NBDPT DISTRESS AND SAFETY F.	
		ship stations	QSX 6402.0 kHz (GKS 3)
6268.5		ship stations, non-paired	
6269.0		ship stations, non-paired	
6269.5		ship stations, non-paired	
		ship stations	QSX 6460.0 kHz (SAB 33)
6270.3		ship stations calling, ch 1	CW
6270.9		ship stations calling, ch 2	CW
6271.5		ship stations calling, ch 3	CW
6272.1		ship stations calling, ch 4	CW
6272.7		ship stations calling, ch 5	CW
6273.3		ship stations calling, ch 6	CW
6273.9		ship stations calling, ch 7	CW
6274.5		ship stations calling, ch 8	CW
6275.1		ship stations calling, ch 9	CW
6275.7		ship stations calling, ch 10	CW
6276.3		ship stations calling, ch 11	CW
6276.9		ship stations calling, ch 12	CW
6277.5		ship stations calling, ch 13	CW
6278.1		ship stations calling, ch 14	CW
6278.7		ship stations calling, ch 15	CW
6279.3		ship stations calling, ch 16	CW
6279.9		ship stations calling, ch 17	CW
6280.5		ship stations calling, ch 18	CW
6281.5	WORLDWIDE	SHIP STATIONS DSC FREQ.	
6310.5	ZAS	Sarande R, ALB	CW
6312.0	WORLDWIDE	DSC DISTRESS AND SAFETY F.	
6314.0	WORLDWIDE	NBDPT MSI FREQUENCY	
6325.5	DZJ 7	Manila R, PHL	CW

6326.5	DZJ	Bulacan R, PHL	CW
	PKN	Balikpapan R, INS	CW
	PKR	Semarang R, INS	CW
	PKY 5	Merauke R, INS	CW
	WNU	Slidell R, LA, USA	CW
6327.5	CLY	Habana R, CUB	CW
6328.0	DSB	Pusan F R, KOR	CW
6328.3	OST 32	Oostende R, BEL	CW
6329.5	DZH 2	Manila R, PHL	CW
6330.0	**CFH**	**CF Halifax, NS, CAN**	**75 Bd: 1237+1844-0824 ry or wx** *FAX // 122.5 kHz $*
	EDF 2	Madrid R, E	CW
	FJP 6	Noumea R, NCL	CW
	YIR	Basrah Control R, IRQ	CW
6331.0	CTH 47	PN Horta, AZR	CW
6331.5	**UMV**	**Murmansk R, RU, URS**	**1708+1910+1925 R tts wtsca** CW
6332.0	S9M	Sao Tome R, STP	CW
6332.5	DVM 4	Manila R, PHL	CW
	DVZ 9	Navotas R, PHL	CW
	DXD 9	Davao R, PHL	CW
6333.5	VII	Port Kennedy R, T. I., AUS	CW
	VIM	Melbourne R, VIC, AUS	CW
	VIR	Rockhampton R, QLD, AUS	CW
	WCC	Chatham R, MA, USA	CW
	XSZ	Dalian R, CHN	CW
6334.5	UFM 3	Nevelsk R, FE, URS	CW
6335.5	DZI	Bacoor R, PHL	CW
	OA. 6	PELPER Iquitos R, PRU	CW
	OCP 2	PELPER Saramuro R, PRU	CW
	VFA	CCG Inuvik, NWT, CAN	CW
	VFF	CCG Iqaluit, NWT, CAN	CW
6336.0	LZW 3	Varna R, BUL	CW
	'P'	Bcn. Kaliningrad, RU, URS	CW
6336.3	**GYA**	**RN London, G**	**75 Bd: 1053+1641-0617 test**
6337.0	CBV	DGTMMM Valpar. R, CHL	CW
	CLA 5	Habana R, CUB	CW
	EDG 2	Madrid R, E	CW
	PK.	many R stations, INS	CW
	WCC	Chatham R, MA, USA	CW
6338.5	DYM	Cebu R, PHL	CW
	KLC	Galveston R, TX, USA	CW
6339.0	DHJ 59	GN Wilhelmshaven, D	CW
6339.8	ZLO 3	RNZN Waiouru, NZL	CW
6340.0	XSO 4	Zhoushan R, CHN	CW
6340.5	ETC	Assab R, ETH	CW
	9VG 9	Singapore R, SNG	CW
6341.5	DYE 9	Cebu R, PHL	CW
	UDH	**Riga R, LA, URS**	**1013+1953 R tts wtsca** CW
	UFB	Odessa R, UK, URS	CW
6342.0	GKK 3	Portishead R, G	CW
	JFA	Matsudo F R, J	CW
	LZL 3	Bourgas R, BUL	CW
6342.6	SUH 7	Alexandria R, EGY	CW
6343.0	Y5M	Rügen R, D	CW
		UNID station (190)	**1400 Swedish wx forecast**
6344.0	HLF	Soul R, KOR	CW
	SVB 3	Athens R, GRC	CW

6344.0	**WLO**	**Mobile R, AL, USA**	**SITOR-B: 0345 + 0400 wx** CW
	YJM 6	Port-Vila R, Efate I., VUT	CW
6344.5	DZE 4	Malabon R, PHL	CW
6345.0	EBB	SN Ferrol, E	CW
	UCY 2	Astrakhan' R, RU, URS	CW
	UFB	**Odessa R, UK, URS**	**SITOR-A: 2146 + 2244 R tts wtsca**
6347.0	PPL	Belem R, B	CW
6348.0	HWN	FN Paris, F	CW
	J2A 6	Jibuti R, DJI	CW
	KFS	San Francisco R, CA, USA	CW
	LOR	**AN Puerto Belgrano, ARG**	**100 Bd: 2348 msgs (5lgs) to LOL**
	5RS	Toamasina R, MDG	CW
6349.0	PPJ	Juncao R, B	CW
6350.0	XFK	La Paz R, MEX	CW
	6YX	JCG Kingston, JMC	CW
6351.0	OBF 4	Mollendo R, PRU	CW
6351.5	P2M	Port Moresby R, PNG	CW
	P2R	Rabaul R, PNG	CW
	VFC	CCG C. Bay, NWT, CAN	CW
	VIB	Brisbane R, QLD, AUS	CW
	YVG	La Guayra R, VEN	CW
	3BM 3	Port Louis R, MAU	CW
6352.0	FUG	FN La Regine, F	CW
	PPL	Belem R, B	CW
6353.0	UFB	Odessa R, UK, URS	CW
	YKI	SCOTC Tartus R, SYR	CW
6354.0	URD	Leningrad R, RU, URS	CW
	XFM	Manzanillo R, MEX	CW
6355.0	EQL	Anzali R, IRN	CW
	EQO	Nowshahr R, IRN	CW
	OFJ 6	Helsinki R, FNL	CW
	PK. .	many R stations, INS	CW
	PZN 2	Paramaribo R, SUR	CW
6355.5	OAA 6	PELPER Iquitos R, PRU	CW
6357.0	DUF	Manila R, PHL	CW
6358.0	XFN	Progreso R, MEX	CW
6358.5	**PBC 36**	**DN Goeree Island, NLD**	**75 Bd: 24 h ry**
	Y5M	**Rügen R, D**	**SITOR-A: 2244 + 2258 + 2346 tts** CW
	9VG 27	Singapore R, SNG	CW
6360.0	CLS	Habana F R, CUB	CW
	DSD	Yosu F R, KOR	CW
	OBC 3	Callao R, PRU	CW
	SXE	HCG Elevsis, GRC	CW
	UHK	Batumi R, GE, URS	CW
	UJY	Kaliningrad R, RU, URS	CW
	XFQ	Salina Cruz R, MEX	CW
6361.0	KUQ	Pago Pago R, SMA	CW
6362.0	EQ.	many R stations, IRN	CW
6363.0	DUS	Manila R, PHL	CW
6363.5	DAF	Norddeich R, D	CW
6364.5	HZG	Dammam R, ARS	CW
6365.0	IRM	CIRM Rome, I	CW
	UVD	Magadan R, FE, URS	CW
6365.5	KFS	San Francisco R, CA, USA	CW
	WPD	Tampa R, FL, USA	CW
6366.0	DUN	PN Manila, PHL	CW
6367.0	XFU	Veracruz R, MEX	CW
6368.5	UDH	Riga R, LA, URS	CW

6368.9	GKA 3	Portishead R, G	CW
6369.0	D3E 41	Luanda R, AGL	CW
	KLC	Galveston R, TX, USA	CW
	UQK	Riga R, LA, URS	CW
	XST	Qingdao R, CHN	CW
6370.0	UBE 2	Petropavl.-Km. R, FE, URS	CW
	UEK	Feodosiya R, UK, URS	CW
	URD	Leningrad R, RU, URS	CW
	VBA	CCG Th. Bay, ONT, CAN	CW
	XSH	Basuo R, CHN	CW
6371.0	PPO	Olinda R, B	CW
6371.2	GYU	RN Gibraltar, GIB	CW
6372.0	CBV	DGTMMM Valpar. R, CHL	CW
	DUW	Manila R, PHL	CW
6372.5	SAG 3	Goeteborg R, S	CW
6373.0	**GYU**	**RN Gibraltar, GIB**	**75 Bd: 0252+1922 foxes**
6374.0	PPJ	Juncao R, B	CW
	TBO 3	TN Izmir, TUR	CW
6375.0	HAR	Budapest R, HNG	CW
	PW.	many BN stations, B	CW
	UGH 2	Juzno R, FE, URS	CW
	URB 2	Klaipeda R, LI, URS	CW
6376.0	CW./..	many UN stations, URG	CW
	C6N	Nassau R, BAH	CW
	SPE 32	Szczecin R, POL	CW
	WCC	Chatham R, MA, USA	CW
6377.0	PPO	Olinda R, B	CW
6379.0	4XZ	IN Haifa, ISR	CW
6379.5	CBV	DGTMMM Valpar. R, CHL	CW
	GKB 3	Portishead R, G	CW
	XSK	Beihai R, CHN	CW
	ZSC 21	Cape Town R, AFS	CW
	8PO	Bridgetown R, BRB	CW
6380.0	TIM	Limon R, CTR	CW
	UQB	Kholmsk R, FE, URS	CW
		UNID Soviet station (1190)	*FAX 60/576: 0130 chart*
6381.0	9KK 4	Safat R, KWT	CW
6382.0	TBA 6	TN Ankara, TUR	CW
6382.2	EAD 2	Madrid R, E	CW
6383.0	NMC	USCG S. Franc., CA, USA	CW
	SPH 31	Gdynia R, POL	CW
	TYA	Cotonou R, BEN	CW
	URL	Sevastopol' R, UK, URS	CW
	XSN	Ningbo R, CHN	CW
	3XC 2	Conakry R, GUI	CW
	3XO 27	Kamsar R, GUI	CW
	6VA 4	Dakar R, SEN	CW
6384.0	DZY 7	Manila R, PHL	CW
6384.5	CKN	CF Vancouver, BC, CAN	CW
6385.0	PPR	Rio de Janeiro R, B	CW
	UFL	Vladivostok R, SE, URS	CW
		UNID meteo station (990)	**1630 wx bulletins in UNID code**
6385.5	DSQ	Inchon F R, KOR	CW
6386.5	HKC	Buenaventura R, CLM	CW
	J..	many R stations, J	CW
	UJO 5	Izmail R, UK, URS	CW
	ZSJ 3	SAN Cape Town, AFS	CW
6387.0	HZG	Dammam R, ARS	CW
6388.0	EBA	SN Madrid, E	CW
	JFA	Matsudo F R, J	CW

6388.0	VWA 1	Ramnagar Port R, IND	CW
6389.0	CTP	NATO Lisbon, POR	CW
6389.7	WNU	Slidell R, LA, USA	CW
6390.0	AQP 4	PN Karachi, PAK	CW
	DZB 7	Malabon R, PHL	CW
	HAR	Budapest R, HNG	CW
	IDQ	IN Rome, I	CW
	JYO	Aqaba R, JOR	CW
	RME 23	R Moscow feeder, RU, URS	ISB
	UPB	Provideniya R, FE, URS	CW
	XFC	Cozumel R, MEX	CW
	XFE	Ensenada R, MEX	CW
	XSQ	Guangzhou R, CHN	CW
	ZPK	Asuncion R, PRG	CW
6391.0	PPR	Rio de Janeiro R, B	CW
6391.5	OSN 46	BN Oostende, BEL	CW
6392.0	CLS	Habana F R, CUB	CW
		Prague Meteo, TCH	**0030+0110+0620+0715+1632 wx**
6393.0	CBV	DGTMMM Valpar. R, CHL	CW
	DZW	Manila R, PHL	CW
6393.5	CUL 6	Lisbon R, POR	CW
	OMC	Bratislava R, TCH	CW
	OMK	Komarno R, TCH	CW
	UDK 2	Murmansk R, RU, URS	CW
	VHI 3	RAN Darwin, NT, AUS	CW
	ZLB 3	Awarua R, NZL	CW
6395.0	TBA 3	TN Ankara, TUR	CW
	UMZ	Valentin R, SE, URS	CW
6395.5	GKN 3	Portishead R, G	CW
6397.0	GKM 3	Portishead R, G	CW
	ZPK	Asuncion R, PRG	CW
6398.0	SPH 32	Gdynia R, POL	CW
6400.0	UMV	Murmansk R, RU, URS	CW
	UON	Baku R, AZ, URS	CW
6400.5	EDZ 2	Madrid R, E	CW
	TCR	TURBAN Istanbul R, TUR	CW
	XSR	Haikou R, CHN	CW
6402.0	DVY 2	Manila R, PHL	CW
	DZE	Mandaluyong R, PHL	CW
	GKS 3	***Portishead R, G***	***scheduled***
6403.0	CLJ	Habana R, CUB	CW
6404.0	PCH 30	Scheveningen R, NLD	CW
6405.0	DZD 3	Manila R, PHL	CW
	LZW 3	Varna R, BUL	CW
	UAH	Tallinn R, ES, URS	CW
	UFH	Petropavl.-Km. R, FE, URS	CW
6407.0	UAI 3	Nakhodka R, SE, URS	CW
6407.5	CBV	DGTMMM Valpar. R, CHL	CW
	GKC 3	Portishead R, G	CW
	VI./.	many R stations, AUS	CW
	XSL	Fuzhou R, CHN	CW
6408.0	DZA	Mandaluyong R, PHL	CW
6408.5	EBA	SN Madrid, E	CW
6409.5	IAR 6	Rome R, I	CW
6410.7	KLB	Seattle R, WA, USA	CW
6411.0	DZF	Bacoor R, PHL	CW
	KLB	Seattle R, WA, USA	CW
	OST 3	Oostende R, BEL	CW
	SVD 3	Athens R, GRC	CW

6411.0	**UKA**	**Vladivostok R, SE, URS**	**0814 R tts wtsca**
	5OW 6	Lagos R, NIG	CW
	9LL	Freetown R, SRL	CW
6412.0	9VG 55	Singapore R, SNG	CW
6413.7	GYC 3	RN London, G	CW
6413.8	**GYA**	**RN London, G**	**75 Bd: 24 h test**
6414.5	ASK	Karachi R, PAK	CW
	CBV	DGTMMM Valpar. R, CHL	CW
	XFA	Acapulco R, MEX	CW
	XSG	Shanghai R/TS, CHN	CW
6415.0	7TA 4	El Djaza'ir R, ALG	CW
	7TF	Skikda R, ALG	CW
6416.0	**WLO**	**Mobile R, AL, USA**	**SITOR-B: 0254 schedule, 0530 wx** CW
6417.0	DZP	Novaliches R, PHL	CW
	UKX	Nakhodka R, SE, URS	CW
6418.0	*CCS*	*CN Santiago, CHL*	*FAX // 4766.0 kHz $*
	IAR 26	Rome R, I	CW
	IQX	Trieste R, I	CW
	VTP 5	IN Vishakhapatnam, IND	CW
6420.0	PWZ	BN Rio de Janeiro, B	CW
	UAD 2	Kholmsk R, FE, URS	CW
	UJQ	Kiyev R, UK, URS	CW
	UNR 7	Severo-Kuril'sk R, FE, URS	CW
6421.5	FFL 3	Saint Lys R, F	CW
6423.0	LZL 3	Bourgas R, BUL	CW
	ZSC 47	Cape Town R, AFS	CW
6423.5	HPP	Panama R, PNR	CW
6424.0	9GA	Takoradi R, GHA	CW
6425.0	EQM	Bushire R, IRN	CW
	EQN	Khomeini R, IRN	CW
	EQQ	Khark R, IRN	CW
	ICB	Genova R, I	CW
	SUP	Port Said R, EGY	CW
	URD	Leningrad R, RU, URS	CW
6427.0	UNM 2	Klaipeda R, LI, URS	CW
6428.0	CBV	DGTMMM Valpar. R, CHL	CW
6428.5	GKD 3	Portishead R, G	CW
	PKE 5	Ternate R, INS	CW
	PKM	Bitung R, INS	CW
	VIX 3	RAN Canberra, ACT, AUS	CW
	XSU	Yantai R, CHN	CW
	Y5M	Rügen R, D	CW
6429.0	DZD	Antipolo R, PHL	CW
6430.0	CFH	CF Halifax, NS, CAN	CW
	UKA	Vladivostok R, SE, URS	CW
	4XO	Haifa R, ISR	CW
6430.4	5RS	Toamasina R, MDG	CW
6432.0	DZZ	Manila R, PHL	CW
	LGU	Rogaland R, NOR	CW
6433.5	OMP 33	Prague R, TCH	CW
6434.0	ZAD 2	Durres R, ALB	CW
	ZAS	Sarande R, ALB	CW
6435.0	DZO	Bulacan R, PHL	CW
	PWZ	BN Rio de Janeiro, B	CW
	XFB	Ciudad del Carmen R, MEX	CW
	XFY	Guaymas R, MEX	CW
6435.5	CWA	Cerrito R, URG	CW
	DAN	Norddeich R, D	CW
	XSI	Sanya R, CHN	CW

6435.5	XSK 4	Haimen R, CHN	CW
6436.0	OBY 2	Paita R, PRU	CW
6436.6	*GYD 3*	*RN London, G*	*FAX // 2813.6 kHz $* CW
6436.8	ZLP 3	RNZN Waiouru, NZL	CW
6438.0	VFR	CCG Resolute, NWT, CAN	CW
6439.0	OXZ 31	Lyngby R, DNK	CW
	UKK 3	**Nakhodka R, SE, URS**	**0645 R tts wtsca** CW
	XFP	Chetumal R, MEX	CW
6440.0	OMC	Bratislava R, TCH	CW
	OMK	Komarno R, TCH	CW
	OMP 3	Prague R, TCH	CW
6442.0	XSE	Qinhuangdao R, CHN	CW
6442.5	XF. .	many PEMEX R stns., MEX	CW
6444.0	DZK	Bulacan R, PHL	CW
6444.5	SVF 3	Athens R, GRC	CW
6445.0	UFL	Vladivostok R, SE, URS	CW
6446.0	WLO	Mobile R, AL, USA	CW
		Murmansk Meteo, RU, URS	*FAX 120/576 LSB: 0400+1900+1930+2000 chart Scandinavia - Barents Sea*
6446.5	WLO	Mobile R, AL, USA	CW
6446.8	OXZ 3	Lyngby R, DNK	CW
6447.0	DVM 2	Makati R, PHL	CW
	UFB	Odessa R, UK, URS	CW
6448.0	LZW 3	Varna R, BUL	CW
6449.0	VHI	RAN Darwin TS, NT, AUS	CW
6449.5	XSO	Wenzhou R, CHN	CW
	Y5M	Rügen R, D	CW
6451.0	HLG	Soul R, KOR	CW
6451.5	SAB 3	Goeteborg R, S	CW
6452.0	XSG	Shanghai R, CHN	CW
6453.0	*NPG*	*USN San Franc., CA, USA*	*FAX // 4855.0 kHz $*
	PW.	many BN stations, B	CW
6454.0	CLA 4	Habana R, CUB	CW
	XSG 24	Shanghai R, CHN	CW
6455.0	**UDK 2**	**Murmansk R, RU, URS**	**1000 R tts wtsca** CW
6455.5	CKN	CF Vancouver, BC, CAN	CW
6456.0	*CKN*	*CF Vancouver, BC, CAN*	*FAX // 4268.0 kHz $* CW
	HCG	Guayaquil R, EQA	CW
	RCV	SN Moscow, RU, URS	CW
6456.5	DAL	Norddeich R, D	CW
	PK. ..	many R stations, INS	CW
6457.5	JOR	Nagasaki R, J	CW
6458.0	XSM	Xiamen R, CHN	CW
6459.0	SPE 31	Szczecin R, POL	CW
6460.0	LSA 3	Boca R, ARG	CW
	SAB 33	**Goeteborg R, S**	**SITOR-A: 24 h tts; QSX 6269.5 kHz**
	UJQ 7	Kiyev R, UK, URS	CW
	UKA	**Vladivostok R, SE, URS**	**0008-1042 R tts wtsca** CW
6461.0	XSQ	Guangzhou R, CHN	CW
6462.0	DYV 9	Victorias R, PHL	CW
	FUM	FN Papeete, Tahiti, OCE	CW
6463.5	HKB	Barranquilla R, CLM	CW
	VI./.	many R stations, AUS	CW

6463.5	XSP	Shantou R, CHN	CW
6465.0	**IER 20**	**IFG Rome, I**	**0218+0606-2203 tfc to msgs**
	PWL	BN Corumba, B	CW
	UJY	Kaliningrad R, RU, URS	CW
6466.0	HZG	Dammam R, ARS	CW
	Y5M	Rügen R, D	CW
6467.0	CBV	DGTMMM Valpar. R, CHL	CW
	JCS	Choshi R, J	CW
	LFU	Rogaland R, NOR	CW
	VTG 5	IN Bombay, IND	CW
	ZSC 36	Cape Town R, AFS	CW
6468.0	DZN	Navotas R, PHL	CW
6469.3	GKG 3	Portishead R, G	CW
6470.0	JCX	Naha R, J	CW
	UIF 2	Anadyr' R, FE, URS	CW
	UXN	Arkhangelsk R, RU, URS	CW
6470.5	4XO	Haifa R, ISR	CW
	6YI	Kingston R, JMC	CW
	9MG 10	Georgetown R, Pin. I., MLA	CW
	9YL	North Post R, TRD	CW
6470.8	GKH 3	Portishead R, G	CW
6471.0	SXA 24	GN Piraeus, GRC	CW
6472.3	GKI 3	Portishead R, G	CW
6473.5	YQI 3	Constanta R, ROU	CW
6474.0	DYV	Iloilo R, PHL	CW
	OB. .	many R stations, PRU	CW
	XSJ	Zhanjiang R, CHN	CW
6475.0	UAT	Moscow R, RU, URS	CW
	UNM 2	**Klaipeda R, LI, URS**	**1915 R tts wtsca, 2300 G nx**
6475.5	DAM	Norddeich R/TS, D	CW
6477.0	DZU	Pasig R, PHL	CW
6477.5	GKJ 3	Portishead R, G	CW
	KPH	San Francisco R, CA, USA	CW
	UBN	Zhdanov R, UK, URS	CW
	XSF	Lianyungang R, CHN	CW
6478.0	ZSC 34	Cape Town R, AFS	CW
6478.8	SVA 3	Athens R, GRC	CW
6479.0	HPP	Panama R, PNR	CW
	JYO	Aqaba R, JOR	CW
6480.0	RIT	SN Vaygach, RU, URS	CW
	9GX	Tema R, GHA	CW
6481.0	ZPK	Asuncion R, PRG	CW
	9MB 3	MN Georgetown, P.I., MLA	CW
6482.0	CLJ	Habana R, CUB	CW
6483.0	PWZ	BN Rio de Janeiro, B	CW
6484.0	LZL 3	Bourgas R, BUL	CW
6484.5	WSC	Tuckerton R, NJ, USA	CW
	XFL	Mazatlan R, MEX	CW
	XSV	Tianjin R, CHN	CW
6485.0	JCU	Choshi R, J	CW
	UAH	Tallinn R, ES, URS	CW
6486.0	DZH	Manila R, PHL	CW
6487.0	UKW 3	Korsakov R, FE, URS	CW
6487.5	VRT	Hamilton R, BER	CW
6488.5	KPH	San Francisco R, CA, USA	CW
6489.0	DYD 2	Cebu R, PHL	CW
	XSJ	Zhanjiang R, CHN	CW
6491.5	JOS	Nagasaki R, J	CW
	PJC	Willemst. R, Curacao, ATN	CW
	PK. .	many R stations, INS	CW

6491.5	TAH	Istanbul R, TUR	CW
	VCS	CCG Halifax, NS, CAN	CW
	9PA	Banana R, ZAI	CW
6492.0	DZM	Bulacan R, PHL	CW
6493.0	VAI	CCG Vancouver, BC, CAN	CW
	YKM 5	SCOT Baniyas Port R, SYR	CW
6493.5	URB 2	Klaipeda R, LI, URS	0212 + 2245 R tts wtsca CW
6494.5		coast stations, channel 1	QSX 6256.5 kHz
	KFS	*San Francisco R, CA, USA*	*scheduled*
	SAB 301	Goeteborg R, S	SITOR-A: 24 h tts
	UMV	Murmansk R, RU, URS	CW
	Y5M	*Rügen R, D*	*scheduled*
	9MG 14	*Georgetown R, Pin. I., MLA*	*scheduled*
6495.0		coast stations, channel 2	QSX 6257.0 kHz
	CUL	*Lisbon R, POR*	*scheduled*
	GKE 3	Portishead R, G	SITOR-A: 24 h tts SITOR-B: 0700 + 1700 + 1900 + 2300 tfc list CW
	HPP	*Panama R, PNR*	*scheduled*
	UFL	Vladivostok R, SE, URS	1045 R tts wtsca CW
	UMV	*Murmansk R, RU, URS*	*scheduled*
	WNU	Slidell R, LA, USA	SITOR-B: 1400 tfc list CW
	ZLW	*Wellington R, NZL*	*scheduled*
6495.5		coast stations, channel 3	QSX 6257.5 kHz
	KFS	*San Francisco R, CA, USA*	*scheduled*
	LSD 836	*Buenos Aires R, ARG*	*scheduled*
	OST 36	*Oostende R, BEL*	*scheduled*
	UBN	Zhdanov R, UK, URS	SITOR-A: 0447 + 1630 + 1810 R tts wtsca CW
	UFL	*Vladivostok R, SE, URS*	*scheduled* CW
	XSV	*Tianjin R, CHN*	*scheduled*
6496.0		coast stations, channel 4	QSX 6258.0 kHz
	DCN	*Norddeich R, D*	*scheduled*
	IAR	*Rome R, I*	*scheduled*
	NMN	USCG Portsmouth, VA, USA	SITOR-A: 0623 + 2343 tts CW
	NMO	*USCG Honolulu, HWA*	*scheduled*
	UBE 2	*Petropavl.-Km. R, FE, URS*	*scheduled*
	UDH	Riga R, LA, URS	SITOR-A: 24 h R tts wtsca CW
	UFN	*Novorossiysk R, RU, URS*	*scheduled*
6496.5		coast stations, channel 5	QSX 6258.5 kHz
	ETC	*Assab R, ETH*	*scheduled*
	PCH 35	Scheveningen R, NLD	SITOR-A: 24 h tts SITOR-B: 0500 + 1830 tfc list CW
	UQB	Kholmsk R, FE, URS	1058 R tts wtsca
	5RS	*Toamasina R, MDG*	*scheduled*
6497.0		coast stations, channel 6	QSX 6259.0 kHz
	LSD 836	*Buenos Aires R, ARG*	*scheduled*
	OFA	Helsinki R, FNL	SITOR-B: 0100 Finnish nx
	UFB	*Odessa R, UK, URS*	*scheduled*

6497.0	UXN	Arkhangelsk R, RU, URS	SITOR-A: 0037+0151+1628+ 1920 R tts wtsca CW
	VIP 32	Perth R, WA, AUS	SITOR-A: 1100+1212 tts CW
	WLO	*Mobile R, AL, USA*	*scheduled*
6497.5		coast stations, channel 7	QSX 6259.5 kHz
	DCM	*Norddeich R, D*	*scheduled*
	UNM 2	*Klaipeda R, LI, URS*	*scheduled*
	UPB	*Provideniya R, FE, URS*	*scheduled*
	URD	Leningrad R, RU, URS	0052 R tts wtsca CW
	VCS	*CCG Halifax, NS, CAN*	*scheduled*
	WAH	*Saint Thomas R, VIR*	*scheduled*
	XSG	*Shanghai R, CHN*	*scheduled*
	Y5M	*Rügen R, D*	*scheduled*
	3AC 26	*Monte Carlo R, MCO*	*scheduled*
6498.0		coast stations, channel 8	QSX 6260.0 kHz
	LGU 2	Rogaland R, NOR	SITOR-A: 24 h tts SITOR-B: 0700 tfc list, N nx; 1900 tfc list CW
	NMF	*USCG Boston, MA, USA*	*scheduled*
	UAH	*Tallinn R, ES, URS*	*scheduled*
	UBN	*Zhdanov R, UK, URS*	*scheduled*
	UCO	*Yalta R, UK, URS*	*scheduled*
6498.5		coast stations, channel 9	QSX 6260.5 kHz
	CBV	*DGTMMM Valpar. R, CHL*	*scheduled*
	HZG	*Dammam R, ARS*	*scheduled*
	KLC	*Galveston R, TX, USA*	*scheduled*
	OXZ	Lyngby R, DNK	SITOR-A: 24 h tts SITOR-B: 0030 Danish nx, 2130 tfc list CW
	SUQ	Ismai'liya R, EGY	CW
	UHK	*Batumi R, GE, URS*	*scheduled*
	VAI	*CCG Vancouver, BC, CAN*	*scheduled*
	9MG 14	*Georgetown R, Pin. I., MLA*	*scheduled*
6499.0		coast stations, channel 10	QSX 6261.0 kHz
	IAR	*Rome R, I*	*scheduled*
	UAT	Moscow R, RU, URS	SITOR-A: 0149+1900 R tts wtsca
	WLO	Mobile R, AL, USA	SITOR-A: 0625 tts CW
	YUS	*Split R, YUG*	*scheduled*
6499.5		coast stations, channel 11	QSX 6261.5 kHz
	CBV	*DGTMMM Valpar. R, CHL*	*scheduled*
	FFT 32	*Saint Lys R, F*	*scheduled* CW
	GKY 3	*Portishead R, G*	*scheduled*
	SVS 3	*Athens R, GRC*	*scheduled*
	UQB	*Kholmsk R, FE, URS*	*scheduled*
	URD	*Leningrad R, RU, URS*	*scheduled*
	WLO	Mobile R, AL, USA	SITOR-A: 0053+0407+0448+ 1310+2342 tts SITOR-B: H+35 tfc list, wx CW
	XSQ	*Guangzhou R, CHN*	*scheduled*
6500.0		coast stations, channel 12	QSX 6262.0 kHz
	GKP 3	Portishead R, G	SITOR-A: 24 h tts CW

6500.0	*NMF*	*USCG Boston, MA, USA*	*scheduled*
	NRV	*USCG Apra Harbour, GUM*	*scheduled*
	OBQ 5	Iquitos R, PRU	CW
6500.5		coast stations, channel 13	QSX 6262.5 kHz
	DCL	Norddeich R, D	SITOR-A: 0636-1814 tts
	KPH	*San Francisco R, CA, USA*	*scheduled*
			CW
	WCC	*Chatham R, MA, USA*	*scheduled*
6501.0		coast stations, channel 14	QSX 6263.0 kHz
	FFT 31	Saint Lys R, F	SITOR-A: 0714-1926 tts or wx SITOR-B: 0200+0300+0600+0700+0800+0900+1000+1100+1200+1300+1400+2100+2200+2300 tfc list or wx
			CW
	KPH	*San Francisco R, CA, USA*	*scheduled*
	UFH	*Petropavl.-Km. R, FE, URS*	*scheduled*
	UJQ	*Kiyev R, UK, URS*	*scheduled*
	VIS 63	Sydney R, NSW, AUS	SITOR-A: 1818 tts
			CW
	WCC	*Chatham R, MA, USA*	*scheduled*
	3AC 36	*Monte Carlo R, MCO*	*scheduled*
6501.5		coast stations, channel 15	QSX 6263.5 kHz
	IAR	*Rome R, I*	*scheduled*
	LSD 836	*Buenos Aires R, ARG*	*scheduled*
	OXZ	*Lyngby R, DNK*	*scheduled*
	URB 2	*Klaipeda R, LI, URS*	*scheduled*
	WLO	Mobile R, AL, USA	SITOR-A: 0053-0417+1310 tts
			CW
	YUR	*Rijeka R, YUG*	*scheduled*
6502.0		coast stations, channel 16	QSX 6264.0 kHz
	COB 36	*Flota Cubana F R, CUB*	*scheduled*
	SPB	Szczecin R, POL	SITOR-A: 0813 tts
			CW
	SVU 3	*Athens R, GRC*	*scheduled*
	TBB 6	TN Ankara, TUR	CW
	YUW	*Bar R, YUG*	*scheduled*
	Y5M	*Rügen R, D*	*scheduled*
	8Q2	*Male R, MLD*	*scheduled*
6502.5		coast stations, channel 17	QSX 6264.5 kHz
	KLC	*Galveston R, TX, USA*	*scheduled*
	OST 37	Oostende R, BEL	SITOR-A: 24 h tts
			CW
	UGH 2	*Juzno R, FE, URS*	*scheduled*
6503.0		coast stations, channel 18	QSX 6265.0 kHz
	IAR	*Rome R, I*	*scheduled*
	UDK 2	*Murmansk R, RU, URS*	*scheduled*
	UKX	*Nakhodka R, SE, URS*	*scheduled*
	VPS 28	Victoria Island R, HKG	SITOR-A: 1743+1957 tts
			CW
6503.5		coast stations, channel 19	QSX 6265.5 kHz
	SAB 319	Goeteborg R, S	SITOR-A: 24 h tts
	UFM 3	*Nevelsk R, FE, URS*	*scheduled*
	VRT	*Hamilton R, BER*	*scheduled*
	WLO	*Mobile R, AL, USA*	*scheduled*
6504.0		coast stations, channel 20	QSX 6266.0 kHz
	NMC	USCG S. Franc., CA, USA	SITOR-A: 0615 tts
	PCH 36	Scheveningen R, NLD	SITOR-A: 24 h tts
			CW
	S9M	*Sao Tome R, STP*	*scheduled*

6504.0	9VG 77	Singapore R, SNG	SITOR-A: 1102+1214 tts SITOR-B: 0130+0730 tfc list CW
6504.5		coast stations, channel 21	QSX 6266.5 kHz
	KPH	*San Francisco R, CA, USA*	*scheduled*
	LGU 3	*Rogaland R, NOR*	*scheduled*
	UQK	*Riga R, LA, URS*	*scheduled*
	WCC	Chatham R, MA, USA	SITOR-A: 0055-0417 tts SITOR-B: 0045+0445+1645+2040 tfc list CW
6505.0		coast stations, channel 22	QSX 6267.0 kHz
	GKQ 3	Portishead R, G	SITOR-A: 24 h tts CW
	IDR 3	IN Rome, I	CW
	KLC	*Galveston R, TX, USA*	*scheduled*
	KPH	*San Francisco R, CA, USA*	*scheduled*
	Y5M	Rügen R, D	SITOR-A: 2118+2350 tts CW
6505.5		coast stations, channel 23	QSX 6267.5 kHz
	DCF	*Norddeich R, D*	*scheduled*
	UBE 2	Petropavl.-Km. R, FE, URS	0847 R tts wtsca
	UDH	Riga R, LA, URS	SITOR-A: 0055+0248+0510+1300+1959+2340 R tts wtsca CW
	YUR	*Rijeka R, YUG*	*scheduled*
6506.0	WORLDWIDE	COAST STATIONS DSC FREQUENCY	
6506.4		coast stations, ch 601	SSB QSX 6200.0 kHz
	CBM 9	ETAL Punta Arenas R, CHL	
	CBV 3	DGTMMM Hanga R. R, PAQ	
	CB./..	many DGTMMM R st., CHL	
	CKN	CF Vancouver, BC, CAN	
	DAJ	Norddeich R, D	
	DVF 7	Navotas R, PHL	
	DVR 3	Manila R, PHL	
	DVW 9	Quezon City R, PHL	
	FJP 7	Noumea R, NCL	
	HAR	Budapest R, HNG	
	HZG	Dammam R, ARS	
	LPW 35	Bahia Blanca R, ARG	
	N..	many USCG stations	
	OBG 3	Pisco R, PRU	
	OBT 2	Talara R, PRU	
	OM.	many R stations, TCH	
	PK.	many R stations, INS	
	S3D	Chittagong R, BGD	
	TFA	Reykjavik R, ISL	
	XF.	many R stations, MEX	
	XFS 5	PEMEX Tuxpan R, MEX	
	XFU 2	PEMEX Veracruz R, MEX	
	XSG	Shanghai R, CHN	
	YUW	Bar R, YUG	
	ZLW	Wellington R, NZL	
	5AT	Tripoli R, LBY	
	5OW	Lagos R, NIG	
	7TA 17	El Djaza'ir R, ALG	
	8Q2	Male R, MLD	
	9GA	Takoradi R, GHA	
	9HD	Valetta R, MLT	
	9MG 30	Georgetown R, Pin. I., MLA	

6509.5		coast stations, ch 602	SSB	QSX 6203.1 kHz
	CFH	CF Halifax, NS, CAN		
	CUL	Lisbon R, POR		
	DXS 3	General Santos City R, PHL		
	DZL 9	Manila R, PHL		
	GYU	RN Gibraltar, GIB		
	HCG	Guayaquil R, EQA		
	HLS	Soul R, KOR		
	HPP 20	Panama R, PNR		
	IAR	Rome R, I		
	OBB 4	Ilo R, PRU		
	OBZ 3	Chimbote R, PRU		
	OSU 31	Oostende R, BEL		
	PCG 31	Scheveningen R, NLD		
	PKC 4	Panjang R, INS		
	PKY 5	Merauke R, INS		
	SPC 31	Gdynia R, POL		
	S3D	Chittagong R, BGD		
	S3E	Khulna R, BGD		
	TAN	Izmir R, TUR		
	TAO	Trabzon R, TUR		
	TRP 8	Gamba R, GAB		
	UQK	Riga R, LA, URS		
	YUR	Rijeka R, YUG		
	3AC 6	Monte Carlo R, MCO		
	3DP	Suva R, FJI		
	4PB	Colombo R, SLK		
	9GX	Tema R, GHA		
	9KK 5	Safat R, KWT		
	9VG 62	Singapore R, SNG		
		Abidjan F R, CTI		
6512.6		coast stations, ch 603	SSB	QSX 6206.2 kHz
	DZJ	Bulacan R, PHL		
	DZZ	Manila R, PHL		
	HAR	Budapest R, HNG		
	HZG	Dammam R, ARS		
	J..	many R stations, J		
	LGN 30	Rogaland R, NOR		
	LPL 30	General Pacheco R, ARG		
	OBY 2	Paita R, PRU		
	OXZ	Lyngby R, DNK		
	PK. ..	many R stations, INS		
	SAG	Goeteborg R, S		
	SVN 3	Athens R, GRC		
	S3D	Chittagong R, BGD		
	TFA	Reykjavik R, ISL		
	TUA	Abidjan R, CTI		
	UDK 2	Murmansk R, RU, URS		
	UIK	Vladivostok R, SE, URS		
	VFF	CCG Iqaluit, NWT, CAN		
	VI.	many R stations, AUS		
	VPS	Victoria Island R, HKG		
	VRT	Hamilton R, BER		
	XFC	Cozumel R, MEX		
	XFK	La Paz R, MEX		
	XFP	Chetumal R, MEX		
	XFS 4	PEMEX Tecolutla R, MEX		
	XFS 5	PEMEX Tuxpan R, MEX		
	4XO	Haifa R, ISR		
	5AT	Tripoli R, LBY		

6512.6	5BA 34	Nicosia R, CYP		
	5WA	Apia R, SMO		
	7TA 18	El Djaza'ir R, ALG		
6515.7		coast stations, ch 604	SSB	QSX 6209.3 kHz
	ASK	Karachi R, PAK		
	CBV 3	DGTMMM Hanga R. R, PAQ		
	CB./..	many DGTMMM R st., CHL		
	CFW	Vancouver R, BC, CAN		
	D.. .	many R stations, PHL		
	EHY	Madrid R, E		
	EQ.	many R stations, IRN		
	IAR	Rome R, I		
	LZW	Varna R, BUL		
	OBF 4	Mollendo R, PRU		
	OBR 3	Salaverry R, PRU		
	PJC	Willemst. R, Curacao, ATN		
	PK. ..	many R stations, INS		
	P2M	Port Moresby R, PNG		
	P2R	Rabaul R, PNG		
	SPO 31	Szczecin R, POL		
	S3E	Khulna R, BGD		
	VPS	Victoria Island R, HKG		
	WAH	Saint Thomas R, VIR		
	WCM	Withamsville R, OH, USA		
	XFC	Cozumel R, MEX		
	XFE	Ensenada R, MEX		
	XFS 4	PEMEX Tecolutla R, MEX		
	XFU 2	PEMEX Veracruz R, MEX		
	XSQ	Guangzhou R, CHN		
	XSV	Tianjin R, CHN		
	YUS	Split R, YUG		
	4XO	Haifa R, ISR		
	5RS	Toamasina R, MDG		
6518.8		coast stations, ch 605	SSB	QSX 6212.4 kHz
	CWF	Punta Carretas R, URG		
	DZI	Bacoor R, PHL		
	DZO	Bulacan R, PHL		
	ETC	Assab R, ETH		
	FFL 31	Saint Lys R, F		
	HAR	Budapest R, HNG		
	HLS	Soul R, KOR		
	HSA 20	Bangkok R, THA		
	LGN 31	Rogaland R, NOR		
	OBC 3	Callao R, PRU		
	OBQ 5	Iquitos R, PRU		
	OXZ	Lyngby R, DNK		
	PK. ..	many R stations, INS		
	SAG	Goeteborg R, S		
	SUH	Alexandria R, EGY		
	S3E	Khulna R, BGD		
	UFO	Kholmsk R, FE, URS		
	UJO 3	Izmail R, UK, URS		
	VAI	CCG Vancouver, BC, CAN		
	VCS	CCG Halifax, NS, CAN		
	WAH	Saint Thomas R, VIR		
	WFN	Jeffersonville R, IN, USA		
	YUR	Rijeka R, YUG		
	5AB	Benghazi R, LBY		
	5OW	Lagos R, NIG		
	5RS	Toamasina R, MDG		

6518.8	6YI	Kingston R, JMC		
	7TA 19	El Djaza'ir R, ALG		
	9KK 52	Safat R, KWT		
6521.9		coast stations, ch 606 (WORLDWIDE CALLING FREQUENCY)	SSB	QSX 6215.5 kHz

6525.0 - 6685.0 AERONAUTICAL MOBILE (R)

6526.0		AMS = 2A 2B 3A 4A 6F 12G 14F	SSB	
6529.0		AMS = 3B 6G	SSB	
6529.5	'VCCC'	**Colombo Air, SLK**	**1119+1838-0116 ry**	**[CMA]**
6532.0		AMS = CWP, 2A 2B 3A 4A 12F	SSB	
6535.0		AMS = SAT, 2C 5D 6G 9D 10A 10D 12C 12J 14B	SSB	
6538.0		AMS = 3A 3B 9B 11B, VAFI	SSB	
6541.0		AMS = 2C 6G 10C 13C 14C	SSB	
6544.0		AMS = 1C 3A 3B 5A 5C 6C 10D	SSB	
6547.0		AMS = 2A 2C 5D 6G 9B 10B 10E 12E 12J 13F 13K 14A	SSB	
6550.0		AMS = 1B 3A 3C 5B 6D 11B 13J	SSB	
6553.0		AMS = 2A 2C 4B 6G 9 10 12E 12F 13E 13F 13K 14A	SSB	
6556.0		AMS = SEA, 1 3A 3C 10C 13C	SSB	
6559.0		AMS = AFI, 2A 3B 6G 11B 13J 14D	SSB	
6562.0		AMS = CWP, 2B 2C 10D 13C	SSB	
6565.0		AMS = 2A 4 6G 11B 14E	SSB	
6568.0		AMS = 2B 2C 3B 6D 7C 10C 13C	SSB	
6571.0		AMS = EA, 12C	SSB	
6574.0		AMS = AFI, 2A 6G 10B 13I 13M 14D	SSB	
6574.3		**MFA Pyongyang, KRE**	**0740 msg + msgs (5fgs)**	
6577.0		AMS = CAR, 2B 2C 3B 4B 6D 13E	SSB	
6580.0		AMS = 6G 7E 9C 10A 13C 13J 13K 14, VEUR	SSB	
6583.0		AMS = 2 3 6E	SSB	
6586.0		AMS = CAR, 2C 6G 7 13G 14C	SSB	
6589.0		AMS = 3	SSB	
6592.0		AMS = NCA, 12C	SSB	
6595.0		AMS = 1B 3B 3C 5B 6D	SSB	
6598.0		AMS = EUR, 4B 6G 9B 10B 10E 12E 13H	SSB	
6601.0		AMS = 2	SSB	
6604.0		AMS = 1D 6G 7C 10A 13N 14B, VNAT	SSB	
6607.0		AMS = 3A 6A 6B	SSB	
6610.0		AMS = 1D 6G 14F	SSB	

6613.0		AMS = 3A 6A 6B 13G	SSB
6616.0		AMS = 4A 6G 12G 14E	SSB
6617.0		Kiyev Air, UK, URS	SSB
		Leningrad Air, RU, URS	SSB
		Moscow Air, RU, URS	SSB
		Riga Air, LA, URS	SSB
		Rostov-na-D. Air, RU, URS	SSB
6619.0		AMS = 3A 6B	SSB
6622.0		AMS = NAT, 6G 7F 9B 12C 13D	SSB
6625.0		AMS = MID, 3B	SSB
6626.7		**MFA Cairo, EGY**	**SITOR-A: 1827 ATU-A tfc**
6628.0		AMS = NAT, 6G 7E 12C 13D 13M 14	SSB
6631.0		AMS = MID, 3B 6C	SSB
6634.0		AMS = 6G	SSB
6637.0		AMS = W I/II/III	SSB
6640.0		AMS = W II/V	SSB
6643.0		AMS = W I/IV	SSB
6645.0	**LZM 7**	**Sofia Meteo, BUL**	**(sp 6795.0 kHz)**
6646.0		AMS = W II/V	SSB
6649.0		AMS = SAM, 3A 6G	SSB
6652.0		AMS = 6G 7B	SSB
6655.0		AMS = NP, 2B 6E	SSB
6658.0		AMS = 3C 6A	SSB
6661.0		AMS = NP, 2B 6E	SSB
6664.0		AMS = 3C 5A	SSB
6667.0		AMS = 1E 2B 6F	SSB
6670.0		AMS = 3C	SSB
6673.0		AMS = AFI CEP, 2A 6G 10F 12D 13D 14B	SSB
6676.0		AMS = VSEA	SSB
6679.0		AMS = VPAC	SSB
6682.0		AMS = 6G	SSB
6683.0	AFA	USAF A.AFB, C.S.,MD, USA	SSB

6685.0 - 6765.0 AERONAUTICAL MOBILE (OR)

6685.0	RFNV	Moscow Air, RU, URS	CW
6693.0	CFH	CF Halifax, NS, CAN	SSB
		Kuybishev Air, RU, URS	SSB
		Novosibirsk Air, SW, URS	SSB
		Sverdlovsk Air, SW, URS	SSB
		Syktyvkar Air, RU, URS	SSB
		Tyumen' Air, SW, URS	SSB
		Yeniseysk Air, SW, URS	SSB
6697.0	MKL	RAF Edinburgh, G	SSB
6698.0	MKL	RAF Edinburgh, G	CW
6705.0	VXA	CF Edmonton, ALTA, CAN	SSB
6712.0	FDE	FAF Villacoublay, F	SSB
6716.0	CFH	CF Halifax, NS, CAN	SSB
6730.0	AFA	USAF A.AFB, C.S.,MD, USA	SSB
	AFI	USAF MC.AFB, S.,CA, USA	SSB
		Aktyubinsk Air, KA, URS	SSB
		Alma Ata Air, KA, URS	SSB
		Baku Air, AZ, URS	SSB
		Krasnodar Air, RU, URS	SSB
		Tashkent Air, UZ, URS	SSB
		Tbilisi Air, GE, URS	SSB

6731.7		**MFA Cairo, EGY**	**SITOR-A: 1810 ATU-A msgs, final tfc, s. off**
6735.0	'X'	Beacon Prague, TCH	CW
6736.0	**ETD 3**	**Addis Ababa Air, ETH**	**1631-0521 ry or msgs [VSA]**
6738.0	AFI	USAF MC.AFB, S.,CA, USA	SSB
	AGA	USAF H. AFB, Honol., HWA	SSB
	AIC	USAF Cl. AFB, Luzon, PHL	SSB
	AIE	USAF Andersen AFB, GUM	SSB
	MQP	RAF Upavon, G	SSB
	XPH	USAF T. AFB, Uumnq., GRL	SSB
6741.5		RAF Buchan, G	SSB
6744.3	**'UNII'**	**Yeniseysk Air, SW, URS**	**2330 msg with local date-time groups, 2340 "ch" [ETG]**
6746.0	CFH	CF Halifax, NS, CAN	SSB
6747.0	**IEN 21**	**IA Padova, I**	**0900 clg IEN 36**
	IEN 36	**IA Gorizia, I**	**0903 clg IEN 21**
6750.0	AFA	USAF A.AFB, C.S.,MD, USA	SSB
	AFE	USAF MD. AFB, T., FL, USA	SSB
	AFE 83	USAF Wideawake, ASC	SSB
	AJE	USAF Croughton, G	SSB
	CUW	PAF/USAF Lajes AFB, AZR	SSB
6753.0	CHR	CF Trenton, ONT, CAN	SSB
	CJX	CF St. John's, NFLD, CAN	SSB
	VXA	CF Edmonton, ALTA, CAN	SSB
		Belawan, INS	SSB
		INTERFLUG Berlin, D	SSB
6756.0	AFA	USAF A.AFB, C.S.,MD, USA	SSB
6760.0	MQD	RAF Plymouth, G	SSB
6761.0		many USAF stations	SSB
6761.3	**HGX 21**	**MFA Budapest, HNG**	**DUP-ARQ: 1410 tfc to HGX 41**
	HGX 41	**Hung. E Damascus, SYR**	**DUP-ARQ: 1410 msgs to HGX 21**

6765.0 - 7000.0 FIXED + Land Mobile <524 525>

6770.0	**LOR**	**AN Puerto Belgrano, ARG**	**75 Bd: 0115 ry, 0203+0526 msgs (5lgs), 2120+2254 msgs**
		MFA Tunis, TUN	**1205 A msgs to Belgrade**
6771.0	**'98 DDX'**	**SN Madrid, E**	**75 Bd: 0525+0830 ry, 1208 s. on with tfc**
6772.0	**TNO**	**ASECNA Pte.-Noire, COG**	**2025-0156 ry**
6775.0	AGA 6..	many USAF MARS stations	SSB
	XTU	**ASECNA Ouagadougou, BFA**	**ARQ-M2 96 Bd: A: 0225+0720+2113 msg B: 0120 "ch" [VBA]**
6786.5	**KRH 51**	**USE London, G**	**75 Bd: 24 h foxes**
6790.0	*YMA 20*	*Ankara Meteo, TUR*	*FAX // 3377.0 kHz $*
		Baraawe, SOM	SSB
		Muqdisho, SOM	SSB
6792.0	**FSB 54**	**INTERPOL Paris, F**	**SITOR-A: 0624-1744 encrypted tfc**
			CW
6795.0	**LZM 7**	**Sofia Meteo, BUL**	**1746-0552 ry or wx**
6797.0		**Czech E Vienna, AUT**	**75 Bd: 1407 msgs to OMZ**
6800.0	**BAO 26**	**PTT Beijing, CHN**	**2053 ry**
	HMP 11	Pyongyang, KRE	CW
6801.5	'D'	Beacon Odessa, UK, URS	CW
	'S'	Bcn. Arkhangelsk, RU, URS	CW
6802.0	'C'	Beacon Moscow, RU, URS	CW
6802.2	'P'	Bcn. Kaliningrad, RU, URS	CW
6804.0	'O'	Beacon Moscow, RU, URS	CW

6804.8	'L'	Bcn. Leningrad, RU, URS	CW
6805.0	RBK 72	R Moscow feeder, RU, URS	ISB
	SOG 280	**PAP Warsaw, POL**	**0030 + 1700 + 2100 E nx**
6812.0	AFA	USAF A.AFB, C.S.,MD, USA	SSB
6815.0	**'RFFQ'**	**FF Nice, F**	**ARQ-E 96 Bd: 1717 msgs (NOTAMs) to 'RFFD' [IXV]**
6817.5	FDY	FAF Orleans, F	CW
6820.0	*JKA 2*	*JIJI Tokyo, J*	*FAX 120/288 or 240/576: 0441-1628 J nx (text)*
6822.5	RKC 24	R Moscow feeder, RU, URS	ISB
6824.0	**GHH**	**Jamestown Meteo, SHN**	**0201 + 0209 + 0230 + 1824 wx**
	OMV 94	**Prague, TCH**	**1315 ry, msg (5lgs)**
6825.0	RBV 79	R Moscow feeder, RU, URS	ISB
	VJQ	RFDS Kalgoorlie, WA, AUS	SSB
6830.0	AFA	USAF A.AFB, C.S.,MD, USA	SSB
	ECA 7	*Madrid Meteo, E*	*(sp 6918.5 kHz)*
	RDW 72	**Khabarovsk Met., SE, URS**	**24 h wx**
6835.0	GFL 22	Bracknell Meteo, G	1626-0950 ry or wx
6837.0		**SHELL Lagos, NIG**	**SITOR-A: 0356 + 2000 tfc to London**
6840.0	EBC	SN Cadiz TS, E	CW/SSB
	VJY	RFDS Darwin, NT, AUS	SSB
6844.5	**FDY**	**FAF Orleans, F**	**24 h ry** CW
6845.0	VJJ	RFDS Charlevl., QLD, AUS	SSB
6848.0	**SOG 284**	**PAP Warsaw, POL**	**0000 E nx, 1900 F nx**
6850.0	YBW	Padang, INS	CW
6852.0	*WLO*	*Mobile R, AL, USA*	*FAX $*
6856.5	FDC	FAF Metz, F	CW
6860.0	**'RPFN'**	**PN Lisbon, POR**	**75 Bd: 0316 ry, 2112 clg 'RETJ'**
6861.0	**EBA**	**SN Madrid, E**	**75 Bd: 0810-1805 ry or clg or tfc to FUG**
6862.5	'U'	Bcn. Murmansk, RU, URS	CW
6870.0	**RTV 55**	**TASS Moscow, RU, URS**	**0415-0545 E nx**
6871.0	**OMZ**	**MFA Prague, TCH**	**75 Bd: 0746 msg, tfc**
6871.5	FDG 21	FAF Cognac, F	CW
6873.0		VoA Greenvl. fdr., NC, USA	ISB
6874.0	*LRB 79*	*AP Buenos Aires, ARG*	*FAX // 5777.5 kHz*
6875.0	RAM 24	R Moscow feeder, RU, URS	SSB
6880.0	*RAN 77*	*Moscow Meteo, RU, URS*	*FAX // 53.6 kHz $*
	VJK	RFDS Meekath., WA, AUS	SSB
6890.0	RAN 76	R Moscow feeder, RU, URS	ISB
	VJT	RFDS Carnarvon, WA, AUS	SSB
	VNZ	RFDS Pt. Augusta, SA, AUS	SSB
6902.0	**AFS**	**USAF AWS Offutt AFB, Omaha, NE, USA**	**75 Bd: 0037 + 0330 + 0349 + 0750 + 1711 wx**
6902.5	**TLO**	**ASECNA Bangui, CAF**	**0313 ry**
6903.0	ZRD 60	Cape Town, AFS	SSB
6904.0	RCV	SN Moscow, RU, URS	CW
6905.0	*AFS*	*USAF AWS Om., NE, USA*	*FAX // 3232.0 kHz*
	FSB	**INTERPOL Paris, F**	**SITOR-A: 0749 + 1023 + 1441 + 1844 encrypted tfc** CW
	RKS 72	Murmansk, RU, URS	SSB
6910.0	*RVO 79*	*Moscow Meteo, RU, URS*	*FAX 90/576: 0140 + 1250 + 2115 + 2230 + 2300 charts*
	RVO 79	R Moscow feeder, RU, URS	SSB
6912.0	**ETD 3**	**Addis Ababa Air, ETH**	**1452-0440 ry or msgs [VWB]**
6913.0	DHJ 59	GN Wilhelmshaven, D	CW

6915.0	**BAP 46**	**XINHUA Beijing, CHN**	**75 Bd: 0900 + 1100 + 1400 + 1500 + 1630 + 1830 E nx**
	6MK 53	*YONHAP Soul, KOR*	*FAX 120/576: 0055-0300 Korean nx (text)*
6918.5	*ECA 7*	*Madrid Meteo, E*	*FAX // 3650.0 kHz $*
6920.0	**RGC 70**	**Kiyev Meteo, UK, URS**	**24 h ry or wx**
	VJC	RFDS Bkn. Hill, NSW, AUS	SSB
6921.0	8BO 4	Bengkulu Air, INS	SSB
6923.0	**OMV 237**	**Prague, TCH**	**1210 ry**
6925.0	KKN 50	MFA Washington, DC, USA	CW
	VJB	RFDS Derby, WA, AUS	SSB
	'RFFDC'	**FF Rennes, F**	**ARQ-E 96 Bd: 1353 msg [IKG]**
6930.0	EBA	SN Madrid, E	CW
6934.0	RIT	SN Vaygach, RU, URS	CW
6936.5	**'RETZS'**	**Guardia Civil Sevilla, E**	**0751 msgs**
6939.4	**'RFFH'**	**FF Marseille, F**	**ARQ-E 96 Bd: 1055 + 1246-1302 msgs + encrypted tfc after "KKKK..." to 'RFFA' [IMK]**
6941.5	**TRK**	**ASECNA Libreville, GAB**	**ARQ-M2 96 Bd: A: 0457 + 2037 + 2120 + 2228 msgs or "ch" [GFA] B: 2045 msgs; 2250 wx with WMO headings**
6942.5	**'RFFA'**	**MOD Paris, F**	**ARQ-E 96 Bd: 1020-1803 msg to 'RFFH' [INK]**
6943.0	**5TX**	**ASECNA Nouadhibou, MTN**	**2041-0720 ry**
6945.0	VJJ	RFDS Charlevl., QLD, AUS	SSB
	VKF	RFDS Wyndham, WA, AUS	SSB
	7XR 27	Adrar Meteo, ALG	SSB
	7XR 31	Bechar Meteo, ALG	SSB
	7XR 92	Tindouf Meteo, ALG	SSB
	'RFFA'	**MOD Paris, F**	**ARQ-E 96 Bd: 0800 operational msg to 'RFFD' [IXV]**
		UNID meteo station (390)	**0230 wx fm Europe and Near East**
6947.0		Neuquen, ARG	SSB
6948.0	**'RFFE'**	**FF Bordeaux, F**	**ARQ-E 72 Bd: 1210 msg (5lgs) to 'RFFG', 1818 + 1856 msg [IUW]**
6949.0		Muqdisho, SOM	SSB
6950.0	RCV 29	R Moscow feeder, RU, URS	SSB
	RJK 78	*Kiyev Meteo, UK, URS*	*FAX // 3360.0 kHz $*
	VJD	RFDS Alice Spr., NT, AUS	SSB
6952.5		Jogindarnagar, IND	CW
6955.0	**EPD**	**Tehran Air, IRN**	**0051 msgs**
6960.0	**LZN 3**	**BTA Sofia, BUL**	**1730 + 1900 E nx**
	LZN 3	**PTT Sofia, BUL**	**2054 + 2106 clg Beijing**
	VKL	RFDS Port Hedl., WA, AUS	SSB
6965.0	VJI	RFDS Mount Isa, QLD, AUS	SSB
6966.0	YMB 20	Bandirma Meteo, TUR	CW
6970.0	**RBT 54**	**Irkutsk Meteo, SE, URS**	**0050 + 0106 + 0948 wx**
		Phuket, THA	SSB
6972.0	**YOG 59**	**ROMPRES Bucharest, ROU**	**1600 F nx, 1700 + 1800 + 1900 E nx**
6975.0	VJY	RFDS Darwin, NT, AUS	SSB
	6VU	**ASECNA Dakar, SEN**	**2313-0630 ry**
6978.0	**CCS**	**CN Santiago, CHL**	**100 Bd: 0455 msgs (5lgs) to 'XKUF'**
	VVD 56	**Delhi Meteo, IND**	**0445 wx**
6978.5		R Moscow feeder, RU, URS	SSB
6981.5	CCS	CN Santiago, CHL	CW
6981.8	**7XA 97**	**El Djaza'ir Meteo, ALG**	**24 h wx**

6983.0	*6MK 60*	*YONHAP Soul, KOR*	*FAX // 6915.0 kHz*
6984.5	'U'	Bcn. Murmansk, RU, URS	CW
6985.0	BSB 29	Lanzhou Meteo, CHN	24 h ry or wx
6986.0	'P'	Bcn. Kaliningrad, RU, URS	CW
6987.5	RAT 23	R Moscow feeder, RU, URS	SSB
6989.0	8Q9	Male Air, MLD	1754-0154 ry [MCA]
6991.5	'RETXX'	MOI Madrid, E	SITOR-A: 0810 tfc to Zaragoza, 0825+1848 msgs
		Zaragoza, E	SITOR-A: 0810 msg to 'RETXX', 1800 encrypted msgs
6992.0	IEN 21	IA Padova, I	1000 clg IEN 36 + IEN 37 + IEN 39
6995.0	MKK	RAF London, G	VFT: 0410 ryi
		RFE Holzkirchen feeder, D	ISB
6995.2		Medan, INS	SSB
6999.0	CSY	Santa Maria Air, AZR	1356-0852 ry or msgs [MCA]

7000.0 - 7100.0 AMATEUR + AMATEUR-SATELLITE <510 526 527>

7000.0	'U'	Bcn. Murmansk, RU, URS	CW
7010.0	UMS	Moscow, RU, URS	CW
7018.0	UJM 20	Murmansk, RU, URS	CW
7048.0	UHF 3	Moscow, RU, URS	1120-0002 tfc + msgs (5fgs) CW
7050.5	RGT 77	Moscow, RU, URS	CW
7083.0	RKST	Tashkent Air, UZ, URS	0525 clg + msg to YAV

7100.0 - 7300.0 Region 1 = BROADCASTING

Region 2 = AMATEUR <521 528>

Region 3 = BROADCASTING

7120.0		Pontianak, INS	SSB

7300.0 - 8100.0 FIXED + LAND MOBILE

7304.0	FIT 75	MOI Paris, F	ARQ-E3 100 Bd: 1130 msgs
7305.0	*JMH 2*	*Tokyo Meteo, J*	*FAX // 3622.5 kHz $*
7311.5	FDY	FAF Orleans, F	CW
7317.2	SUU	Cairo Meteo, EGY	24 h wx
7320.5	9NK	Kathmandu Air, NPL	1428 ry
7330.0	*3MA 30*	*CNA Taipei, TAI*	*FAX // 5117.0 kHz*
7335.0	CHU	Ottawa TS, ONT, CAN	CW/SSB
7340.0	7OC	Khormaksar Air, YEM	1141 ry
7341.5		Ambon, INS	SSB
		Padang, INS	SSB
7342.0	5NK	Kano Air, NIG	0054+0410+2215 ry
7350.5	BAF 44	Beijing Meteo, CHN	1438+1850 wx
7355.0	TZH	ASECNA Bamako, MLI	2020 "ch"
7356.0	'P'	Bcn. Kaliningrad, RU, URS	CW
7363.7	*HMF 88*	*KCNA Pyongyang, KRE*	*FAX 60/288: 2336-1147 Korean nx (text) or wx charts*
7364.0	HMF 88	KCNA Pyongyang, KRE	1800 E nx
7366.0	IEA 20	IA Rome, I	SSB
7394.0	HSW 64	Bangkok Meteo, THA	0016+0047+0101+1043-2145 wx *FAX $*
7397.0	'RPFN'	PN Lisbon, POR	75 Bd: 0340 foxes

7398.0	*WLO*	*Mobile R, AL, USA*	*scheduled*
7401.0	9BC 21	IRNA Tehran, IRN	1800 + 1900 A nx
7402.5	JMG 3	Tokyo Meteo, J	1045 + 1240 + 1429 + 1754 wx
7403.0	*ATP 57*	*Delhi Meteo, IND*	*FAX // 4993.5 kHz $*
7407.0	CML 5	PTT Habana, CUB	2130-0350 foxes or to New York
7410.0	RAN 72	R Moscow feeder, RU, URS	SSB
7415.0	*WLO*	*Mobile R, AL, USA*	*scheduled*
7420.0	*BDF*	*Shanghai Meteo, CHN*	*FAX 120/576: 2230-0956 charts*
7422.5	'U'	Bcn. Murmansk, RU, URS	CW
7423.0	5YD	Nairobi Air, KEN	1501-0444 ry or msgs [KVA]
7425.5	'RFFG'	FF Strasbourg, F	ARQ-E 72 Bd: 1558 msg [IVW]
7428.0	NDT	USN Yokosuka, J	COMB
7428.5		TELAM Buenos Aires, ARG	0500 + 0800 + 1000 + 2000-0300 S nx
7433.0	FDY	FAF Orleans, F	CW
7442.0	NKW	USN Diego Garcia, DGA	1830 wx + tfc to 3BT
7446.5		Italian E El Djaza'ir, ALG	SITOR-A: 1513 tfc to Rome, 1941 msg (5lgs) to Rome
7449.5		MFA Rome, I	SITOR-A: 0804 msgs (5lgs)
7450.0	RAN 71	R Moscow feeder, RU, URS	SSB
7455.0	MKK	RAF London, G	VFT: 0202 ryi COMB
7460.0	LZB	BTA Sofia, BUL	1730 E nx
7460.5	5YE	Nairobi Meteo, KEN	2222 + 2322 wx 100 Bd: 0028 wx
7464.5	*5YE*	*Nairobi Meteo, KEN*	*FAX $*
7465.0	VJN	RFDS Cairns, QLD, AUS	SSB
7474.0	GXQ	BA London, G	VFT: 2030 ryi COMB
	TJK	ASECNA Douala, CME	1713-0740 ry
7475.0	*RXB 75*	*Khabarovsk Met., SE, URS*	*FAX // 4516.7 kHz $*
	'RFFE'	FF Bordeaux, F	ARQ-E 96 Bd: 1246 operational msg to 'RFFC', 1454 msg to 'RFFC' [IBA]
7480.5		VoA Greenvl. fdr., NC, USA	SSB
7483.0	6VU	ASECNA Dakar, SEN	ARQ-M2 96 Bd: A: 0000 + 0155 + 2106 svc msgs + msgs to TZH [DBA] B: 2250-0658 msgs [MBB]
7487.5	MKD	RAF Akrotiri, CYP	VFT: 1802-0825 ryi COMB
7495.0	*RDK 23*	*Tbilisi Meteo, GE, URS*	*FAX // 3745.0 kHz $*
7504.0	GXH	RN/USN Thurso, G	CW
7508.0	*ZRO 2*	*Pretoria Meteo, AFS*	*FAX // 4014.0 kHz $*
7512.0	TZH	ASECNA Bamako, MLI	ARQ-M2 96 Bd: B: 0000 "ch", 0001 svc msg to 6VU, 0020 "ch", 0530 msg, 2340 "ch" [BDA]
	XVN	Hanoi Meteo, VTN	1415 + 1815 + 1835 + 2115 ry, wx
	ZRO 2	Pretoria Meteo, AFS	75 Bd: 0104 + 0350 + 0405 wx
7513.0	FDY	FAF Orleans, F	CW
7514.5	FDG 21	FAF Cognac, F	CW
7520.0	BZP 57	XINHUA Beijing, CHN	75 Bd: 1400 + 1600-0300 E nx
7521.1	FDY	FAF Orleans, F	24 h ry
7522.2	EAE 220	MFA Madrid, E	SITOR-A: 1322 tfc
7524.0	TYE	ASECNA Cotonou, BEN	ARQ-M2 96 Bd: A: 0001 + 0611 msgs, 2045 "ch" [UNA] B: 0520 + 1740 "ch", 1757 msg, 2040 "ch", 2248 msg
7525.0	RBX 56	ANGOP Moscow, RU, URS	1900 + 2000 P nx

7530.0	*NMF*	*USCG Boston, MA, USA*	*FAX // 3242.0 kHz $*
	RQM 76	*Khabarovsk Met., SE, URS*	*FAX // 3250.0 kHz*
7532.0	**FSB 55**	**INTERPOL Paris, F**	**SITOR-A: 24 h encrypted tfc** CW
7535.0	*ÂXI 33*	*Darwin Meteo, NT, AUS*	*FAX // 5755.0 kHz $*
7541.5	**CCM**	**CN Magallanes, CHL**	**0155 ry, 2215 ry, clg + msg (5lgs) to NQAL**
7542.5	**ZEN 33**	**AFP Victoria Island, HKG**	**75 Bd: 0100 E nx, 1400 F nx, 1500-2200 E nx**
7548.0		**Kiel, D**	**ARQ-E 86 Bd: 1316 encrypted tfc**
7552.5	**5ST 41**	**Antananarivo Meteo, MDG**	**0255+0355+1645+1855+1920 wx**
7560.0	ROK 27	R Moscow feeder, RU, URS	SSB
7562.0	SOH 256	PAP Warsaw, POL	CW
7564.0	CTP	NATO Lisbon, POR	CW (hx 3782.0 kHz)
7565.0	**YIX 75**	**INA Baghdad, IRQ**	**1300-2000 A nx**
7570.0	OYR	Aasiat R, GRL	CW
	RBX 72	*Tashkent Meteo, UZ, URS*	*FAX // 3690.0 kHz $*
7572.5	FDC	FAF Metz, F	CW
7574.0	RCV	SN Moscow, RU, URS	CW
7575.0	*RSR 79*	*Minsk Meteo, BY, URS*	*FAX // 3810.0 kHz*
7576.0	FVA 80	Rosny sur Bois Gend., F	CW
7577.0	**'RXFIAF'**	**NATO Lisbon, POR**	**75 Bd: 2226 clg 'RXFIAC'**
7580.0	**MKD**	**RAF Akrotiri, CYP**	**VFT: 1742-0613 ryi** COMB
	RKA 70	PTT Moscow, RU, URS	SSB
	VVD 57	**Delhi Meteo, IND**	**24 h wx**
7582.0	*NKW*	*USN Diego Garcia, DGA*	*FAX // 5262.0 kHz $*
7585.0	**LZI 33**	**Sofia, BUL**	**1642 ry**
7592.0	**YZD 6**	**TANJUG Belgrade, YUG**	**1900 F nx**
7596.0	**5UA**	**ASECNA Niamey, NGR**	**ARQ-M2 96 Bd: A: 0342+0615+1542+1704+1838+2233 msgs [NUB]** **B: 1541-0616 msgs [NUA, NUB]**
7598.0	IEA 20	IA Rome, I	SSB
7600.0	*BAF*	*Beijing Meteo, CHN*	*FAX // 3170.0 kHz*
	HD 210A	Guayaquil TS, EQA	CW/SSB
7605.0	**'RFFA'**	**MOD Paris, F**	**ARQ-M2 96 Bd: A: 0800 msg to 'RFTJ'**
7610.0	**SUA 231**	**MENA Cairo, EGY**	**0200+0500+0600+1600+1700 E nx, 1800 F nx, 1900 E nx, 2000 F nx, 2200+2300 E nx**
	3XA	**Conakry Air, GUI**	**0015+0405+1836+2115 ry**
7614.0	**5UA**	**ASECNA Niamey, NGR**	**1713-0632 ry or msgs [NKA]**
7617.0		**SHELL Lagos, NIG**	**SITOR-A: 1830 msgs**
7619.0	**FUG**	**FN La Regine, F**	**75 Bd: 0703-2201 ry or clg or msg to EBA**
7623.0		**Czech E Bonn, D**	**75 Bd: 0718+0917 msgs to OMZ**
7625.0	**HZN 47**	**Jeddah Meteo, ARS**	**100 Bd: 1318-0435 ry or wx**
7626.0	**TZH**	**ASECNA Bamako, MLI**	**0145+0430+1828+2143 ry**
	3XD	Kankan Air, GUI	CW
7627.0	KWS 78	USE Athens, GRC	CW
7630.0	*RNR 78*	*Rst.-na-D. M., RU, URS*	*FAX // 3610.0 kHz $*
7640.0	*RST 76*	*Minsk Meteo, BY, URS*	*FAX // 3235.0 kHz*
7646.0	**DDH 7**	**Hamburg Meteo, D**	**24 h ry or wx**
7650.0	**BZR 67**	**XINHUA Beijing, CHN**	**75 Bd: 1400+1700-0300 E nx**
7651.0		VoA Greenvl. fdr., NC, USA	ISB
7652.0	KKN 44	USE Monrovia, LBR	CW
7653.7	**HBD 20**	**MFA Berne, SUI**	**SITOR-A: 1820 msg (5lgs), final tfc, s. off**

7655.0	FIT 35	Rennes Prefecture, F	ARQ-E3 100 Bd: 1525+1638 msg to FIT 31 [TLZO]
7656.0		*XINHUA Beijing, CHN*	*FAX // 5815.0 kHz*
7657.5	GYA	RN London, G	75 Bd: 2211 foxes
7658.0	YZD	TANJUG Belgrade, YUG	0700-1900+1915+2000-0600 E nx
7659.5	FDY	FAF Orleans, F	CW
7662.0	KWL 90	USE Manila, PHL	CW
7668.7	HBD 20	MFA Berne, SUI	SITOR-A: 1140+1625 tfc to HBD 54
	HBD 54	Swiss E Rome, I	SITOR-A: 1141 msg (5lgs) + tfc to HBD 20, 1625 msg (5lgs) to HBD 20
7670.0	*RCC 76*	*Moscow Meteo, RU, URS*	*FAX // 53.6 kHz $*
7676.5	'U'	Bcn. Murmansk, RU, URS	CW
7680.0	GXQ	BA London, G	VFT: 24 h ryi COMB
7685.0	RBV 75	Moscow Meteo, RU, URS	24 h ry or wx
7690.0	TUH	ASECNA Abidjan, CTI	1958-0700 ry
7693.0	3BT 3	Vacoas Meteo, MAU	0030+0330+0630+0930+1230+1530+1830 wx
7695.0	3MA 26	CNA Taipei, TAI	0230+0330+0930-1030+1330-1500 E nx
7700.0	RTP 72	Irkutsk Meteo, SE, URS	0103 wx
7701.6	PCW 1	MFA Den Haag, NLD	SITOR-A: 1533 tfc; 1945 final tfc, s. off CW
7705.0	AOK	USN Rota, E	CW
7710.0	MKK	RAF London, G	VFT: 24 h ryi COMB
	VFF	*Iqaluit Meteo, NWT, CAN*	*FAX // 3253.0 kHz $*
7711.0		MFA Tunis, TUN	0730 A msgs
7715.0	RCU 71	Novosibirsk M., SW, URS	1255-0715 ry or wx
7724.0	KRH 50	USE London, G	CW
7746.7		MFA Cairo, EGY	SITOR-A: 1943 ATU-A tfc
7750.0	*RAW 78*	*Moscow Meteo, RU, URS*	*FAX // 2815.0 kHz $*
7756.0	SUA 34	MENA Cairo, EGY	1500-2400 A nx
7756.3	P2H	Mount Hagen Air, PNG	0828+1052+1434 ry
7756.8		Garoowe, SOM	SSB
		Muqdisho, SOM	SSB
7760.0	RGH 77	Arkhangelsk M., RU, URS	24 h ry or wx
7761.8	EAE 220	MFA Madrid, E	SITOR-A: 1306 tfc
7762.0	*RGH 77*	*Arkhangelsk Meteo, RU, URS*	*FAX 60/576: 0125+0425+0725+1025+1325+1625+1925+2225 ASRU*
7765.0	NDT	USN Yokosuka, J	COMB
7767.8	EAE 220	MFA Madrid, E	SITOR-A: 1134 tfc
7768.5		VoA Greenvl. fdr., NC, USA	SSB
7770.0	GYU	RN Gibraltar, GIB	VFT: ARQ-M2 96 Bd: B: 0304+2133 encrypted tfc COMB
7776.5	OST 38	Oostende R, BEL	SITOR-B: 0300 Dutch nx, 0415+0910+1400+2200 tfc list CW
7792.0	GYA	RN London, G	75 Bd: 0403+2059 test
7800.0		CN Barranquilla, CLM	SSB
		CN Cali, CLM	SSB
7801.0	9BC 22	IRNA Tehran, IRN	1500-1730 E nx
7803.5	STK	Khartoum Air, SDN	1547-0659 ry
7805.5	FDC	FAF Metz, F	CW

7805.5	FDY	FAF Orleans, F	CW
7806.0	YZD 7	TANJUG Belgrade, YUG	0000 + 1700 + 1800 + 1915 + 2200 E nx
7811.7		MFA Cairo, EGY	SITOR-B: 1719-2204 ATU-A msg
7815.0	BAA 22	Beijing Meteo, CHN	2343-1057 ry or wx
7816.5	FDI	FAF Aix, F	CW
7817.0	5NK	Kano Air, NIG	2036-0631 ry
7829.0	CTP	NATO Lisbon, POR	75 Bd: 2148 clg CTX
7830.0	'RFFA'	MOD Paris, F	ARQ-E 72 Bd: 1620-1637 relay of an endless political blahblah G (!) msg fm 'RFGAC' on the occasion of 03 OCT 1990; 1800 msg to 'RFFH'
7838.7		MFA Cairo, EGY	SITOR-A: 1620 ATU-A tfc
7839.8	'RPTI'	PN Ponta Delgada, AZR	75 Bd: 2148 ry
7840.0	'RFFH'	FF Marseille, F	ARQ-E 72 Bd: 1833 msg to 'RFFXL' [UBZ]
7842.4	CNM 20.1X	MAP Rabat, MRC	1000-1130 F nx, 1200-1400 E nx, 1530-1700 F nx
7844.0	UXO 4	Tevriz, SW, URS	CW
7845.0	SOH 284	PAP Warsaw, POL	0030 + 1700 + 2100 E nx
7850.0	ZAA	ATA Tirana, ALB	1100-1245 + 1700-1845 + 1900 + 2100 F nx
7854.0	IDQ	IN Rome, I	75 Bd: 0900 ry
7855.0	ROK 24	Moscow Meteo, RU, URS	24 h ry or wx
7863.0	BJZ 21	Wuhan Meteo, CHN	24 h ry or wx
7868.0	6MK 50	YONHAP Soul, KOR	0030 + 0700 E nx
7873.0	'PHWR'	USAF H. AFB, H., HWA	75 Bd: 1415 + 1730 wx
7879.0	ONY 27	NATO Mons, BEL	CW
7880.0	*DDK 3*	*Hamburg Meteo, D*	*FAX // 3855.0 kHz $*
7887.0	4UZ	UNO Geneva, SUI	75 Bd: 0334-0616 msg to 4US, 2000 ry
7888.0		Merida, MEX	0005 + 0241 + 0412 wx
7890.0	ROQ 3	Novosibirsk M., SW, URS	1323-0649 wx
7891.0	OEC	MFA Vienna, AUT	SI-ARQ 96 Bd: 5 characters: 1300 tfc to OEC 61
	OEC 61	Austrian E Rome, I	SI-ARQ 96 Bd: 5 characters: 1300 msg to OEC
7892.5	SOH 289B	PAP Warsaw, POL	SITOR-B: 1200 + 1400 + 1800 Polish nx
	SPW	Warsaw R, POL	SITOR-A: 24 h tts; QSX 8298.1 kHz CW
7894.0	SPW	Warsaw R, POL	SSB
7895.0	'RFVI'	FF Le Port, REU	ARQ-M2 96 Bd: A: 0243 encrypted tfc after "KKKK..." to 'RFFA', 0305 + 2035 "controle de voie" to 'RFFA' [REI] B: 0240 "controle de voie" + msgs (wx) + encrypted tfc after "KKKK..." to 'RFFA'; 2035 "controle de voie" to 'RFFA' [REI]
7902.0	FIT 75	MOI Paris, F	ARQ-E3 100 Bd: 0937 + 1021 + 1620 + 1633 + 1906 msg to FIT 13 [MAZ]
7904.5	'K'	Bcn. Khabarovsk, SE, URS	CW
7910.0	*RCW 79*	*Alma Ata Meteo, KA, URS*	*FAX 60/576: 0145 + 1655 + 2230 + 2330 chart Kazahkhstan*
7910.5		MFA Rome, I	SITOR-A: 0700 + 0735 msgs (5lgs), 1139 msg

7913.0	9JZ	Lusaka Air, ZMB	0355 tfc to 'FLLI', 0406 ry
7914.0	AGA 8HI	USAF MARS Hickam AFB, Honolulu, HWA	VFT: 75 Bd: 2149 foxes without ID / msgs
7917.5	DFG 91	DW Cologne feeder, D	SSB
7925.0	ROK 22	R Moscow feeder, RU, URS	ISB
7926.0	EBC	SN Cadiz, E	CW
7931.0	*LRO 48*	*NA Buenos Aires, ARG*	*FAX 60/576 LSB ISD: 2150 pix with S text*
7937.5	**'RFFA'**	**MOD Paris, F**	**ARQ-E 72 Bd: 0836-1330 msgs + msgs (5lgs) to 'RFFH' [IKD]**
7954.5	**LRN 85**	**DyN Buenos Aires, ARG**	**75 Bd: 1100 + 1900-0400 S nx**
7957.7	**'RFFA'**	**MOD Paris, F**	**ARQ-E 72 Bd: 1819 msg to 'RFFH' [IKD]**
7959.0	**9BC 23**	**IRNA Tehran, IRN**	**1500-1730 E nx, 1730 A nx, 1900-2030 E nx, 2030-2200 A nx**
7960.0	**MKD**	**RAF Akrotiri, CYP**	**VFT: 2002-0857 ryi**
			COMB
7967.5	*RFU 7*	*Rst.-na-D. M., RU, URS*	*FAX // 3610.0 kHz $*
7972.0	**XVN**	**Hanoi Meteo, VTN**	**1515 + 1815 + 2115 ry, wx**
7973.5	**SPW**	**Warsaw R, POL**	**SITOR-A: 0151-2157 tts; QSX 8328.5 kHz**
			CW
7975.0	SPW	Warsaw R, POL	SSB
7980.0	**Y3I**	**Potsdam Meteo, D**	**100 Bd: 24 h ry or wx**
7982.5	**'RFFC'**	**FF Lille, F**	**ARQ-E 96 Bd: 1945 msg (5lgs) [IAA]**
7988.3		**MFA Rome, I**	**0740 msgs (5lgs)**
7990.5	**5HD**	**Dar es Salaam Air, TZA**	**0244-0431 ry or msgs [DLA]**
7996.0	**YZD 9**	**TANJUG Belgrade, YUG**	**0100 + 0300 + 1700 E nx**
7997.0	**SOH 299**	**Warsaw Meteo, POL**	**24 h ry or wx**
7998.0	**FDY**	**FAF Orleans, F**	**0825-1636 ry**
8000.0	FDY	FAF Orleans, F	CW
	JJY	Tokyo TS, J	COMB
8001.0	SOI 200	PAP Warsaw, POL	CW
8004.0	**YRR 2**	**Bucharest Meteo, ROU**	**(hx 4002.0 kHz)**
8005.0	RCD 33	R Moscow feeder, RU, URS	ISB
8005.5	**HSD**	**Bangkok Air, THA**	**0812 msgs**
8012.3	**EAE 220**	**MFA Madrid, E**	**SITOR-A: 0714 tfc**
8017.5	**IBA**	**USN Napoli, I**	**75 Bd: 1835 foxes**
8020.0	**HMF 85**	**KCNA Pyongyang, KRE**	**1800-2100 E nx**
8030.0	**IRF 50**	**ANSA Rome, I**	**0800 E nx, 0900 F nx, 1000 E nx, 1100 F nx, 1200 + 1300 E nx, 1400 F nx, 1500 E nx, 1600 F nx, 1800 E nx**
	LOL	AN Buenos Aires TS, ARG	CW
8030.5	**5UA**	**ASECNA Niamey, NGR**	**0330 ry**
8040.0	*GFA 23*	*Bracknell Meteo, G*	*FAX // 3289.5 kHz $*
	ROK 21	R Moscow feeder, RU, URS	SSB
8045.0	**FSB**	**INTERPOL Paris, F**	**SITOR-A: 24 h encrypted tfc**
			CW
	IUV 81	**INTERPOL Rome, I**	**SITOR-A: 0820 + 0835 + 1035 msgs + tfc**
8047.5	**IRF 20**	**ANSA Rome, I**	**1700 + 1800 E nx**
8049.0	**9BC 25**	**IRNA Tehran, IRN**	**1730-1900 A nx, 1900-2030 E nx, 2030-2200 A nx**
8050.0	FDY	FAF Orleans, F	CW
8051.5	**WOO**	**Ocean Gate R, NJ, USA**	**SITOR-B: 2220-1225 tfc list or wx**
8055.0	**LZA 2**	**PTT Sofia, BUL**	**1358 + 2050 + 2103 clg Beijing**
8060.0	**RAW 71**	**TASS Moscow, RU, URS**	**0415-0545 E nx**

8062.0	IRF 80	ANSA Rome, I	0800 E nx, 0900 F nx, 1000 E nx, 1100 F nx, 1200 E nx, 1400 F nx, 1500 E nx, 1600 F nx, 1800+1900 E nx, 2000 F nx
8070.0	FDY	FAF Orleans, F	CW
	ZRH	SAN Cape Town, AFS	75 Bd: 0008-0153 clg or AMVER msgs to NMN
8071.3	AWD	Delhi Air, IND	0026-0256+1437-1635 ry or msgs [IKA]
8077.5	'U'	Bcn. Murmansk, RU, URS	CW
8080.0	*NAM*	*USN Norfolk, VA, USA*	*FAX // 3357.0 kHz $*
8081.0		R Moscow feeder, RU, URS	SSB
8083.0	*RIJ 75*	*Tashkent Meteo, UZ, URS*	*FAX // 3280.0 kHz $*
8085.0	RVL 21	Khabarovsk Met., SE, URS	1325-0200 ry or wx
8087.0	KMI	Dixon R, CA, USA	SITOR-B: 0530+1030+1430 tfc list
8090.0	NAM	USN Norfolk, VA, USA	CW
8094.7	'RFFVA'	FAF Paris, F	ARQ-M2 200 Bd: A: 0158+2238 tfc

8100.0 - 8195.0 FIXED + MARITIME MOBILE

8100.0	Y2N 50	Berlin, D	0838 ry
8101.0		coast+ship st., ch 1	SSB
	STK	Khartoum Air, SDN	1459-0620 ry or msgs [SEA]
8101.0	EAE 220	MFA Madrid, E	SITOR-A: 1319 tfc
8104.0		coast+ship st., ch 2	SSB
8105.0	'RFFX'	FF Versailles, F	ARQ-E 72 Bd: 1819 msg to 'RFFXL', 1827+2030 "controle de voie" to 'RFFXL' [XXL]
		MFA Tunis, TUN	0840 A msg, s. off
8107.0		coast+ship st., ch 3	SSB
	OFA	*Helsinki R, FNL*	*scheduled; QSX 8346.5 kHz*
8110.0		coast+ship st., ch 4	SSB
	IER 20	IFG Rome, I	1003+1400 tfc + msg to IER 50
8113.0		coast+ship st., ch 5	SSB
8116.0		coast+ship st., ch 6	SSB
8117.0	BMB	Taipei Meteo, TAI	CW
8118.0	9JZ	Lusaka Air, ZMB	0325 ry to 'FWLL' [JLA]
8119.0		coast+ship st., ch 7	SSB
8122.0		coast+ship st., ch 8	SSB
	BAF 36	*Beijing Meteo, CHN*	*FAX // 5527.0 kHz $*
8122.8	TNL	ASECNA Brazzaville, COG	1801-0700 ry or msg
8125.0		coast+ship st., ch 9	SSB
	RDZ 79	R Moscow feeder, RU, URS	ISB
8128.0		coast+ship st., ch 10	SSB
	'RFFH'	FF Marseille, F	ARQ-E 72 Bd: 0823 msgs to 'RFFX' [ILD]
8130.5	DFH 23L2	DW Cologne, D	1049 s. on with ry, 1125 to Cyclops
	FDI	FAF Aix, F	CW
8131.0		coast+ship st., ch 11	SSB
8132.0	DFH 23	PIAB Bonn, D	FEC-A 96 Bd: 0545-0745+1345-1445 G nx
8134.0		coast+ship st., ch 12	SSB
8134.5		Italian E Tripoli, LBY	SITOR-A: 0843 msg to Rome
8135.5	'U'	Bcn. Murmansk, RU, URS	CW
8135.7	'HVQ 20'	VNA Hanoi, VTN	0000+1000 V nx, 1100 F nx, 1130 V nx

8137.0		coast+ship st., ch 13	SSB
8137.5	**TCY 1**	**AA Ankara, TUR**	**1400+1630-1900 Turkish nx**
8139.5	**FDY**	**FAF Orleans, F**	**1145 ry**
8140.0		coast+ship st., ch 14	SSB
	CLN 219	**PL Habana, CUB**	**0800+0900 E nx**
	RNN 51	**TASS Moscow, RU, URS**	**0415-0545+1900 E nx**
	9VF 44	*JIJI Singapore, SNG*	*FAX // 6820.0 kHz*
8143.0		coast+ship st., ch 15	SSB
8143.5	'K'	Bcn. Khabarovsk, SE, URS	CW
8145.0	**EIP**	**Shannon Air, IRL**	**24 h ry or msgs [SMA]**
8146.0		coast+ship st., ch 16	SSB
8146.6	*IMB 55*	*Rome Meteo, I*	*FAX // 4777.5 kHz $*
8148.0	OVG 8	DM Frederikshavn, DNK	CW
8149.0		coast+ship st., ch 17	SSB
8150.0	NRV	USCG Apra Harbour, GUM	CW
	UKS	SAM Barentsbg., Sp., NOR	CW
		Murmansk, RU, URS	**0706 R telex wtsca**
8152.0		coast+ship st., ch 18	SSB
	HMF 86	**KCNA Pyongyang, KRE**	**1000 E nx, 1145+1200 F nx, 1800 E nx**
8154.0	**SNN 299**	**MFA Warsaw, POL**	**75 Bd: 0552-0830+1549+1605 ry or msgs or msg (5fgs)**
8155.0		coast+ship st., ch 19	SSB
	MKD	**RAF Akrotiri, CYP**	**VFT: 1638-0709 ryi COMB**
8157.5	'K'	Bcn. Khabarovsk, SE, URS	CW
8158.0		coast+ship st., ch 20	SSB
8161.0		coast+ship st., ch 21	SSB
8164.0		coast+ship st., ch 22	SSB
8165.0	VNZ	RFDS Pt. Augusta, SA, AUS	SSB
	5YD	**Nairobi Air, KEN**	**1446-0534 ry or msgs [KSA]**
8167.0		coast+ship st., ch 23	SSB
8167.5	LQB 9	Buenos Aires TS, ARG	CW
	LQB 9	*DyN Buenos Aires, ARG*	*FAX 60/288 LSB ISD: 2213+2340 pix with S text*
8170.0		coast+ship st., ch 24	SSB
8171.0	VNZ	RFDS Pt. Augusta, SA, AUS	SSB
8171.5	**IPR 24**	**Bologna Police, I**	**SITOR-A: 1328 msg**
8173.0		coast+ship st., ch 25	SSB
8175.0	**HMX 33**	**PTT Pyongyang, KRE**	**0840+0854 ry**
	JAE 58	**KYODO Tokyo, J**	**0000-0100+0240-0410+1220-1250 E nx**
	'DOR'	**MFA Sofia, BUL**	**75 Bd: 0814 msgs to Vienna, 1120 msg + tfc, 1326 encrypted msgs + tfc to Bonn**
8176.0		coast+ship st., ch 26	SSB
	FZR 81	*Saint Denis Meteo, REU*	*FAX $*
8179.0		coast+ship st., ch 27	SSB
8180.0	UHO 2	Yuzhno-S. Meteo, FE, URS	CW
8180.5		**Italian E Tunis, TUN**	**SITOR-A: 0740 tfc to Rome**
8182.0		coast+ship st., ch 28	SSB
8185.0		coast+ship st., ch 29	SSB
	GKX ..	Portishead Air, G	SSB
8188.0		coast+ship st., ch 30	SSB
8190.0	**BLM 22**	**Chengdu Meteo, CHN**	**0041-1036 ry or wx**
8191.0		coast+ship st., ch 31	SSB
8192.5	**SOI 219**	**PAP Warsaw, POL**	**1600 E nx**
8194.0	FDY	FAF Orleans, F	CW

8195.0 - 8815.0 MARITIME MOBILE <500A 500B 501 520B 529A>

8195.0		ship stations, ch 801	SSB	QSX 8718.9 kHz
8198.1		ship stations, ch 802	SSB	QSX 8722.0 kHz
8201.2		ship stations, ch 803	SSB	QSX 8725.1 kHz
8204.3		ship stations, ch 804	SSB	QSX 8728.2 kHz
	OED	DDSG Vienna R, AUT		
8207.4		ship stations, ch 805	SSB	QSX 8731.3 kHz
8210.5		ship stations, ch 806	SSB	QSX 8734.4 kHz
8213.6		ship stations, ch 807	SSB	QSX 8737.5 kHz
	WCM	Withamsville R, OH, USA		
8216.7		ship stations, ch 808	SSB	QSX 8740.6 kHz
8219.8		ship stations, ch 809	SSB	QSX 8743.7 kHz
8222.9		ship stations, ch 810	SSB	QSX 8746.8 kHz
8226.0		ship stations, ch 811	SSB	QSX 8749.9 kHz
8229.1		ship stations, ch 812	SSB	QSX 8753.0 kHz
8232.2		ship stations, ch 813	SSB	QSX 8756.1 kHz
8235.3		ship stations, ch 814	SSB	QSX 8759.2 kHz
8238.4		ship stations, ch 815	SSB	QSX 8762.3 kHz
8241.5		ship stations, ch 816	SSB	QSX 8765.4 kHz
8244.6		ship stations, ch 817	SSB	QSX 8768.5 kHz
8247.7		ship stations, ch 818	SSB	QSX 8771.6 kHz
8250.8		ship stations, ch 819	SSB	QSX 8774.7 kHz
8253.9		ship stations, ch 820	SSB	QSX 8777.8 kHz
8257.0		ship stations, ch 821	SSB	QSX 8780.9 kHz
		(WORLDWIDE CALLING FREQ.)		
8260.1		ship stations, ch 822	SSB	QSX 8784.0 kHz
8263.2		ship stations, ch 823	SSB	QSX 8787.1 kHz
8266.3		ship stations, ch 824	SSB	QSX 8790.2 kHz
8268.4		Libreville Port R, GAB	SSB	
8269.4		ship stations, ch 825	SSB	QSX 8793.3 kHz
8272.5		ship stations, ch 826	SSB	QSX 8796.4 kHz
8275.6		ship stations, ch 827	SSB	QSX 8799.5 kHz
8278.7		ship stations, ch 828	SSB	QSX 8802.6 kHz
8281.2	HOR 24	REFPA Panama R, PNR	SSB	
		Port of Spain R, TRD	SSB	
		Roseau Port R, DMA	SSB	
8281.8		ship stations, ch 829	SSB	QSX 8805.7 kHz
8284.9		ship stations, ch 830	SSB	QSX 8808.8 kHz
8288.0		ship stations, ch 831	SSB	QSX 8811.9 kHz
8291.0	WORLDWIDE	DISTRESS AND SAFETY FREQ.	SSB	
8291.1	WORLDWIDE	COAST AND SHIP STATIONS SIMPLEX FREQUENCY	SSB	
8294.2	WORLDWIDE	COAST AND SHIP STATIONS SIMPLEX FREQUENCY	SSB	
8297.6		ship stations, non-paired		
		ship stations	QSX 8496.5 kHz (GKS 4)	
8298.1		ship stations, non-paired		
		ship stations	QSX 7892.5 kHz (SPW)	
8298.6		ship stations, non-paired		
8299.1		ship stations, non-paired		
8299.6		ship stations, non-paired		
		ship stations	QSX 8556.0 kHz (SAB 44)	
8328.5		ship stations	QSX 7973.5 kHz (SPW)	
8334.0	*GYA*	*RN London, G*	*FAX $*	
8344.0		ship stations, channel 1	QSX 8705.0 kHz	
8344.5		ship stations, channel 2	QSX 8705.5 kHz	
8345.0		ship stations, channel 3	QSX 8706.0 kHz	
8345.5		ship stations, channel 4	QSX 8706.5 kHz	
8346.0		ship stations, channel 5	QSX 8707.0 kHz	

8346.5		**ship stations, channel 6**	**QSX 8707.5 kHz**
		ship stations	**QSX 8107.0 kHz (OFA)**
8347.0		**ship stations, channel 7**	**QSX 8708.0 kHz**
8347.5		**ship stations, channel 8**	**QSX 8708.5 kHz**
8348.0		**ship stations, channel 9**	**QSX 8709.0 kHz**
8348.5		**ship stations, channel 10**	**QSX 8709.5 kHz**
8349.0		**ship stations, channel 11**	**QSX 8710.0 kHz**
8349.5		**ship stations, channel 12**	**QSX 8710.5 kHz**
8350.0		**ship stations, channel 13**	**QSX 8711.0 kHz**
8350.5		**ship stations, channel 14**	**QSX 8711.5 kHz**
8351.0		**ship stations, channel 15**	**QSX 8712.0 kHz**
8351.5		**ship stations, channel 16**	**QSX 8712.5 kHz**
8352.0		**ship stations, channel 17**	**QSX 8713.0 kHz**
8352.5		**ship stations, channel 18**	**QSX 8713.5 kHz**
8353.0		**ship stations, channel 19**	**QSX 8714.0 kHz**
8353.5		**ship stations, channel 20**	**QSX 8714.5 kHz**
8354.0		**ship stations, channel 21**	**QSX 8715.0 kHz**
8354.5		**ship stations, channel 22**	**QSX 8715.5 kHz**
8355.0		**ship stations, channel 23**	**QSX 8716.0 kHz**
8355.5		**ship stations, channel 24**	**QSX 8716.5 kHz**
8356.0		**ship stations, channel 25**	**QSX 8717.0 kHz**
8356.5		**ship stations, channel 26**	**QSX 8717.5 kHz**
8357.0		**ship stations, channel 27**	**QSX 8718.0 kHz**
8357.5		**ship stations, non-paired**	
8360.4		ship stations calling, ch 1	CW
8361.2		ship stations calling, ch 2	CW
8362.0		ship stations calling, ch 3	CW
8362.8		ship stations calling, ch 4	CW
8363.6		ship stations calling, ch 5	CW
8364.4		ship stations calling, ch 6	CW
	WORLDWIDE	SURVIVAL CRAFT STNS. FREQ.	SSB
8365.2		ship stations calling, ch 7	CW
8366.0		ship stations calling, ch 8	CW
8366.8		ship stations calling, ch 9	CW
8367.6		ship stations calling, ch 10	CW
8368.4		ship stations calling, ch 11	CW
8369.2		ship stations calling, ch 12	CW
8370.0		ship stations calling, ch 13	CW
8370.8		ship stations calling, ch 14	CW
8371.6		ship stations calling, ch 15	CW
8372.4		ship stations calling, ch 16	CW
8373.2		ship stations calling, ch 17	CW
8374.0		ship stations calling, ch 18	CW
8375.5	**WORLDWIDE**	**SHIP STATIONS DSC FREQUENCY**	
8376.5	**WORLDWIDE**	**NBDPT DISTR. AND SAFETY F.**	
8391.0	**'99 GDH'**	**SN Cartagena, E**	**100 Bd: 1525 ry**
8395.5		**ship stations**	**QSX 9402.5 kHz (OST)**
8414.5	**WORLDWIDE**	**DSC DISTRESS AND SAFETY F.**	
8416.5	**WORLDWIDE**	**NBDPT MSI FREQUENCY**	
8436.0	DSB	Pusan F R, KOR	CW
	UCO	Yalta R, UK, URS	CW
8436.5	ZSD 50	Durban R, AFS	CW
8437.0	JOS	Nagasaki R, J	CW
	PKC	Palembang R, INS	CW
	PKN	Balikpapan R, INS	CW
	PKY 2	Biak R, INS	CW
	4XZ	IN Haifa, ISR	CW
	7TA 6	El Djaza'ir R, ALG	CW
	7TF	Skikda R, ALG	CW
8438.0	9WH	Kota Kin. R, Sabah, MLA	CW

8439.0	DZD 9	Quezon City R, PHL	CW
	PBC 38	**DN Goeree Island, NLD**	**75 Bd: 24 h ry**
8440.0	CFH	CF Halifax, NS, CAN	CW
	YIR	Basrah Control R, IRQ	CW
8440.6	UAT	Moscow R, RU, URS	CW
8441.0	C6N	Nassau R, BAH	CW
	XYR 7	Yangon R, MYA	CW
	9YL	North Post R, TRD	CW
8441.4	5ZF 2	Mombasa R, KEN	CW
	7OA	Aden R, YEM	CW
	9HD	Valetta R, MLT	CW
8442.0	SXA 36	GN Piraeus, GRC	CW
8443.0	DYE 6	Cebu R, PHL	CW
	VFF	CCG Iqaluit, NWT, CAN	CW
	Y5M	Rügen R, D	CW
8444.5	KFS	San Francisco R, CA, USA	CW
8445.0	A4M	Muscat R, OMA	CW
	KFS	San Francisco R, CA, USA	CW
	PK. .	many R stations, INS	CW
	S7Q	Victoria R, Mahe, SEY	CW
	WLO	Mobile R, AL, USA	CW
	XSX	Keelung R, TAI	CW
	YUR 4	Rijeka R, YUG	CW
	9PA	Banana R, ZAI	CW
8445.5	WLO	Mobile R, AL, USA	CW
8446.0	UFM 3	Nevelsk R, FE, URS	CW
	UNR 7	Severo-Kuril'sk R, FE, URS	CW
	UQK	**Riga R, LA, URS**	**0015 R tts wtsca** CW
8447.0	DZC 4	Makati R, PHL	CW
	L2C	Buenos Aires R, ARG	CW
	L2X	Comod. Rivadavia R, ARG	CW
8448.0	A9M	Hamala R, BHR	CW
8449.0	LPC 46	Ushuaia R, ARG	CW
	TJC 6	Douala R, CME	CW
	ZKR	Avarua R, Rarotg. I., CKH	CW
	ZSC 22	Cape Town R, AFS	CW
	8RB	Demerara R, GUY	CW
8449.3	8PO	Bridgetown R, BRB	CW
8449.4	VRT	Hamilton R, BER	CW
8450.0	5AB	Benghazi R, LBY	CW
	6YX	JCG Kingston, JMC	CW
8450.5	ROT	SN Moscow, RU, URS	CW
8451.0	D.. .	many R stations, PHL	CW
	HAR	Budapest R, HNG	CW
	UBF 2	Leningrad R, RU, URS	CW
	UFH	Petropavl.-Km. R, FE, URS	CW
	XSG 4	Shanghai R, CHN	CW
8452.0	VIS 35	Sydney R, NSW, AUS	CW
8452.5	PPO	Olinda R, B	CW
8453.0	CBV	DGTMMM Valpar. R, CHL	CW
	HWN	FN Paris, F	CW
	TNA 8	Pointe-Noire R, COG	CW
	VAI	CCG Vancouver, BC, CAN	CW
	XSM	Xiamen R, CHN	CW
8454.0	A9M	Hamala R, BHR	CW
	UJY	**Kaliningrad R, RU, URS**	**24 h ry or R tts wtsca; QSX 12624.0 kHz**

8454.5	*SVG 4*	*Athens R, GRC*	*FAX 120/576: 0845 test, 0849 ASMM LGMC 0000, 0903 surface prognosis*
			CW
8455.0	XSQ	Guangzhou R, CHN	CW
8456.0	ROT	SN Moscow, RU, URS	CW
8457.0	EDG 3	Madrid R, E	CW
	LSA 4	Boca R, ARG	CW
	NMA	USCG Miami, FL, USA	CW
	OFJ 82	Helsinki R, FNL	CW
	PKG	Banjarmasin R, INS	CW
	PKP	Dumai R, INS	CW
	PKY 5	Merauke R, INS	CW
	XSP	Shantou R, CHN	CW
8458.0	HAR	Budapest R, HNG	CW
8459.0	*NOJ*	*USCG Kodiak, ALS*	*FAX // 4298.0 kHz $*
	XSH 48	Dandong R, CHN	CW
	YQI 4	Constanta R, ROU	CW
8460.0	LZW 4	Varna R, BUL	CW
	PPJ	Juncao R, B	CW
8460.5	PPJ	Juncao R, B	CW
	PPL	Belem R, B	CW
	UJY	Kaliningrad R, RU, URS	CW
8461.0	CBV	DGTMMM Valpar. R, CHL	CW
	FJA 8	Papeete R, Tahiti, OCE	CW
	PKD	Surabaya R, INS	CW
	PKR	Semarang R, INS	CW
	PKY 4	Sorong R, INS	CW
	YVG	La Guayra R, VEN	CW
	ZSC 42	Cape Town R, AFS	CW
8461.5	5OZ 23	Port Harcourt R, NIG	CW
8462.0	PPL	Belem R, B	CW
	SVU 4	**Athens R, GRC**	**SITOR-A: 1750-0012 tts** **SITOR-B: 0300 Greek nx**
8463.0	CKN	CF Vancouver, BC, CAN	CW
	JOU	Nagasaki R, J	CW
	Y5M	Rügen R, D	CW
8465.0	NMN	USCG Portsm., VA, USA	CW
	OBC 3	Callao R, PRU	CW
	TUA 4	Abidjan R, CTI	CW
	5BA	Nicosia R, CYP	CW
	5RS	Toamasina R, MDG	CW
	6YI	Kingston R, JMC	CW
8466.0	DSD	Yosu F R, KOR	CW
	HAR	Budapest R, HNG	CW
	HSC 62	Bangkok Port R, THA	CW
	UJY	Kaliningrad R, RU, URS	CW
8467.5	*JJC*	*Tokyo R, J*	*FAX // 4316.0 kHz*
8469.0	CUL	Lisbon R, POR	CW
	D4A 6	Mindelo R, S. Vicente, CPV	CW
	D4D	Praia R, Santiago, CPV	CW
	EQ.	many R stations, IRN	CW
	XXG	Macao R, MAC	CW
8470.0	XFL	Mazatlan R, MEX	CW
	XVG 9	Hai Phong R, VTN	CW
8471.0	EQZ	IORC Abadan R, IRN	CW
	NMN	USCG Portsm., VA, USA	CW

8471.0	**UXN**	**Arkhangelsk R, RU, URS**	**SITOR-A: 1328 + 1727 + 1841 + 1931 R tts wtsca** **SITOR-B: 2125 R navigational warnings wtsca** CW
	ZRH	**SAN Cape Town, AFS**	**75 Bd: 1954 clg 'S32S'**
8472.0	LZL 4	Bourgas R, BUL	CW
	TEC	Puntarenas R, CTR	CW
	YKI	SCOTC Tartus R, SYR	CW
8473.0	EDF 3	Madrid R, E	CW
	HLG	Soul R, KOR	CW
	PKE	Amboina R, INS	CW
	PKS	Pontianak R, INS	CW
	SUP	Port Said R, EGY	CW
	UNM 2	Klaipeda R, LI, URS	CW
	WPD	Tampa R, FL, USA	CW
	4PB	Colombo R/TS, SLK	CW
8473.5	A7D	Doha R, QAT	CW
	WLO	Mobile R, AL, USA	CW
8474.0	**EBA**	**SN Madrid, E**	**75 Bd: 1812 ry**
	HCG	Guayaquil R, EQA	CW
	'98 DDX'	**SN Madrid, E**	**75 Bd: 0245 ry, clg '92 NTX'**
8474.5	WLO	Mobile R, AL, USA	CW
8475.5	FUX	FN Le Port, REU	CW
8476.0	DUF	Manila R, PHL	CW
	OMC	Bratislava R, TCH	CW
	OMK	Komarno R, TCH	CW
	UAH	Tallinn R, ES, URS	CW
	9VG 56	Singapore R, SNG	CW
8478.0	CBV	DGTMMM Valpar. R, CHL	CW
	OST 4	Oostende R, BEL	CW
	TIM	Limon R, CTR	CW
	VIX 4	RAN Canberra, ACT, AUS	CW
8478.5	FUF	FN Fort de France, MRT	CW
8479.0	JCU	Choshi R, J	CW
8480.0	HZY	ARAMCO Ras Tan. R, ARS	CW
	PW.	many BN stations, B	CW
	TIM	Limon R, CTR	CW
	UAT	**Moscow R, RU, URS**	**SITOR-A: 1957 R tts wtsca** CW
	XUK 3	Kompong Som Ville R, CBG	CW
	5AL	ARGOIL Tobruk R, LBY	CW
8481.0	PPL	Belem R, B	CW
8482.0	OMP 41	Prague R, TCH	CW
	SPH 41	Gdynia R, POL	CW
8483.5	DAN	Norddeich R, D	CW
8484.0	DUS	Manila R, PHL	CW
	HLJ	Soul R, KOR	CW
8484.5	HZG	Dammam R, ARS	CW
	XSE	Qinhuangdao R, CHN	CW
8485.0	4XO	Haifa R, ISR	CW
8486.0	IDQ	IN Rome, I	CW
8487.0	VID	Darwin R, NT, AUS	CW
	XSG 26	Shanghai R, CHN	CW
8488.0	DUN	PN Manila, PHL	CW
8489.0	CLS	Habana F R, CUB	CW
8490.0	AQP 5	PN Karachi, PAK	CW
	CUL 7	Lisbon R, POR	CW
	NMF	***USCG Boston, MA, USA***	***scheduled***
	OBF 4	Mollendo R, PRU	CW

8490.0	XSQ 4	Guangzhou R, CHN	CW
	5OZ 23	Port Harcourt R, NIG	CW
8492.0	JNA	JN Tokyo, J	CW
	PPR	Rio de Janeiro R, B	CW
	9MG 2	Georgetown R, Pin. I., MLA	CW
8493.0	TBA 4	TN Ankara, TUR	CW
8494.0	*NUD*	*USN Adak, ALS*	*FAX // 4855.0 kHz $*
	PPO	Olinda R, B	CW
8494.6	*GZZ 40*	*RN London, G*	*FAX // 2813.6 kHz $* CW
8496.0	CLA 20	Habana R, CUB	CW
	DUW	Manila R, PHL	CW
	5OZ 23	Port Harcourt R, NIG	CW
8496.5	***GKS 4***	***Portishead R, G***	***scheduled; QSX 8297.6 kHz***
8497.0	HLJ	Soul R, KOR	CW
8497.5	PPJ	Juncao R, B	CW
8498.0	SAG 4	Goeteborg R, S	CW
8499.0	PPR	Rio de Janeiro R, B	CW
8500.0	CTP	NATO Lisbon, POR	CW
	ROT	SN Moscow, RU, URS	CW
	'RBSL'	**IN Bombay, IND**	**2208 + 2317 ry**
8502.0	IQX	Trieste R, I	CW
	NIK	*USCG Boston, MA, USA*	*FAX 120/576: 1600 ice chart* CW
	PPL	Belem R, B	CW
	XSG	Shanghai R/TS, CHN	CW
	YJM 8	Port-Vila R, Efate I., VUT	CW
	ZSC 37	Cape Town R, AFS	CW
8504.0	DYD 8	Bacolod R, PHL	CW
	TBO 4	TN Izmir, TUR	CW
	ZLB 4	Awarua R, NZL	CW
8505.0	XFK	La Paz R, MEX	CW
8506.0	UDH	Riga R, LA, URS	CW
	XSX	Keelung R, TAI	CW
8508.0	KLC	Galveston R, TX, USA	CW
	RIW	SN Khiva, UZ, URS	CW
8510.0	FFS 4	Saint Lys R, F	CW
	J2A 8	Jibuti R, DJI	CW
	UKK 3	Nakhodka R, SE, URS	CW
	VWV	Vishakhapatnam R, IND	CW
8511.0	XSW	Kaohsiung R, TAI	CW
8511.9	DAL	Norddeich R, D	CW
8512.0	DZY 7	Manila R, PHL	CW
8512.7	VHI 4	RAN Darwin, NT, AUS	CW
8514.0	VWB	Bombay R, IND	CW
	WLO	**Mobile R, AL, USA**	**SITOR-B: H + 35 tfc list, wx** CW
	XFA	Acapulco R, MEX	CW
	XSQ	Guangzhou R, CHN	CW
8515.0	P2M	Port Moresby R, PNG	CW
	P2R	Rabaul R, PNG	CW
	UFL	Vladivostok R, SE, URS	CW
	URL	Sevastopol' R, UK, URS	CW
	5AT	Tripoli R, LBY	CW
8516.0	CLS	Habana F R, CUB	CW
	GKC 4	Portishead R, G	CW
8516.3	SXE	HCG Elevsis, GRC	CW
8518.0	ELC	Monrovia R, LBR	CW
8520.0	DZB 7	Malabon R, PHL	CW
	UFL	Vladivostok R, SE, URS	CW

8520.1	PPO	Olinda R, B	CW
8521.0	VIS 26	Sydney R, NSW, AUS	CW
8522.0	CBV	DGTMMM Valpar. R, CHL	CW
	9WW 20	Kuching R, Sarawak, MLA	CW
8522.5	FFL 4	Saint Lys R, F	CW
8523.0	RIW	SN Khiva, UZ, URS	CW
8523.4	JOR	Nagasaki R, J	CW
8523.5	CTW 8	PN Lisbon, POR	CW
8524.0	DZW	Manila R, PHL	CW
8525.0	WNU	Slidell R, LA, USA	CW
	9KK 6	Safat R, KWT	CW
8526.0	VWC	Calcutta R, IND	CW
8526.5	**CTW 8**	**PN Lisbon, POR**	**2000 wx**
8527.0	OBY 2	Paita R, PRU	CW
8527.5	LFN	Rogaland R, NOR	CW
8528.0	JYO	Aqaba R, JOR	CW
	L2E	Buenos Aires R, ARG	CW
	L2S	Mar del Plata R, ARG	CW
	L2X	Comod. Rivadavia R, ARG	CW
8528.5	EBA	SN Madrid, E	CW
	UFB	Odessa R, UK, URS	CW
8529.0	PPR	Rio de Janeiro R, B	CW
8530.0	IAR 28	Rome R, I	CW
	PWZ	BN Rio de Janeiro, B	CW
	SVJ 4	Athens R, GRC	CW
	UIB 2	Magadan R, FE, URS	CW
	XSK	Beihai R, CHN	CW
	9VG 25	Singapore R, SNG	CW
8532.0	DSQ	Inchon F R, KOR	CW
	LZW 42	Varna R, BUL	CW
	PWZ	**BN Rio de Janeiro, B**	**0337 msgs**
8534.0	EQL	Anzali R, IRN	CW
	EQO	Nowshahr R, IRN	CW
	J..	many R stations, J	CW
	WLO	**Mobile R, AL, USA**	**SITOR-B: 0340 tfc list, wx**
	ZPK	Asuncion R, PRG	CW
	3VP 7	Sakhira R, TUN	CW
8535.0	UKA	Vladivostok R, SE, URS	CW
	UTA	Tallinn R, ES, URS	CW
8536.0	DVY 2	Manila R, PHL	CW
8536.5	SVD 4	Athens R, GRC	CW
8538.0	6WW	FN Dakar, SEN	CW
8539.0	VPS 35	Victoria Island R, HKG	CW
8540.0	DZD 3	Manila R, PHL	CW
	OBT 2	Talara R, PRU	CW
	UBN	**Zhdanov R, UK, URS**	**0920 R tts wtsca**
8541.0	CLJ	Habana R, CUB	CW
	URB 2	Klaipeda R, LI, URS	CW
	XSJ	Zhanjiang R, CHN	CW
8542.0	PKX	Jakarta R, INS	CW
	PWZ	BN Rio de Janeiro, B	CW
	9GA	Takoradi R, GHA	CW
8543.0	VPS 37	Victoria Island R, HKG	CW
8544.0	OMP 44	Prague R, TCH	CW
8545.0	DZF	Bacoor R, PHL	CW
	UQK	Riga R, LA, URS	CW
8545.9	GKA 4	Portishead R, G	CW
8546.0	OB. .	many R stations, PRU	CW
	UHK	Batumi R, GE, URS	CW
	XST	Qingdao R, CHN	CW

8546.0	XSY	Hualien R, TAI	CW
	9PA	Banana R, ZAI	CW
8546.1	KLB	Seattle R, WA, USA	CW
8547.5	JFA	Matsudo F R, J	CW
8548.0	DZF	Bacoor R, PHL	CW
	PPO	Olinda R, B	CW
8549.0	**UXN**	**Arkhangelsk R, RU, URS**	**1103 R tts wtsca** CW
8550.0	FFT 4	Saint Lys R, F	CW
	PWZ	BN Rio de Janeiro, B	CW
	UQA 4	Murmansk R, RU, URS	CW
8551.2	**PWZ**	**BN Rio de Janeiro, B**	**0645 msg, tfc**
8551.6	CTP	NATO Lisbon, POR	CW
8552.0	GKK 4	Portishead R, G	CW
8554.0	3BA 4	Port Louis R, MAU	CW
8555.0	TBB 7	TN Ankara, TUR	CW
	UFH	Petropavl.-Km. R, FE, URS	CW
8556.0	DZP	Novaliches R, PHL	CW
	SAB 44	**Goeteborg R, S**	**SITOR-A: 24 h tts; QSX 8299.6 kHz** **SITOR-B: 0500 + 1700 Swedish nx**
8556.5	HZG	Dammam R, ARS	CW
8557.0	SPE 41	Szczecin R, POL	CW
	UGH 2	Juzno R, FE, URS	CW
8558.4	KFS	San Francisco R, CA, USA	CW
8559.5	GKB 4	Portishead R, G	CW
8562.0	PCH 40	Scheveningen R, NLD	CW
	XFE	Ensenada R, MEX	CW
8562.5	XFB	Ciudad del Carmen R, MEX	CW
8564.0	DVZ 6	Malabon R, PHL	CW
	DZE	Mandaluyong R, PHL	CW
	LZL 4	Bourgas R, BUL	CW
8565.0	D3E 51	Luanda R, AGL	CW
	UBN	**Zhdanov R, UK, URS**	**SITOR-A: 2140 R tts wtsca**
8566.0	ZSJ 4	SAN Cape Town, AFS	CW
8567.0	XDA	Mexico City R, MEX	CW
8568.0	FUV	FN Jibuti, DJI	CW
8568.5	XFM	Manzanillo R, MEX	CW
8569.0	GKD 4	Portishead R, G	CW
8570.0	NRV	USCG Apra Harbour, GUM	CW
	UPB	Provideniya R, FE, URS	CW
	WNU	Slidell R, LA, USA	CW
	XVT 5	Da Nang R, VTN	CW
8571.0	JNA	JN Tokyo, J	CW
	UFN	Novorossiysk R, RU, URS	CW
8572.0	DZD	Antipolo R, PHL	CW
	TBA 7	TN Ankara, TUR	CW
	5TA	Nouadhibou R, MTN	CW
8573.0	CLA 21	Habana R, CUB	CW
	UKW 3	Korsakov R, FE, URS	CW
8573.5	HSA 4	Bangkok R, THA	CW
8573.9	5RS	Toamasina R, MDG	CW
8574.0	HKC	Buenaventura R, CLM	CW
	LGB	Rogaland R, NOR	CW
	NMC	USCG S. Franc., CA, USA	CW
	XSU	Yantai R, CHN	CW
8575.0	**URD**	**Leningrad R, RU, URS**	**0222-1928 ry or R tts wtsca** CW
8575.5	XDA	Mexico City R, MEX	CW
8576.0	DZZ	Manila R, PHL	CW

8576.5	ZSD 45	Durban R, AFS	CW
8577.0	HLO	Soul R, KOR	CW
8578.0	CW./..	many UN stations, URG	CW
	SUH 3	Alexandria R, EGY	CW
8580.0	DZO	Bulacan R, PHL	CW
	RKLM	Arkhangelsk R, RU, URS	CW
	URL	**Sevastopol' R, UK, URS**	**2102+2145 R tts wtsca** CW
8580.5	GKN 4	Portishead R, G	CW
	XFC	Cozumel R, MEX	CW
8581.6	GKM 4	Portishead R, G	CW
8582.0	XSN	Ningbo R, CHN	CW
	XSW	Kaohsiung R, TAI	CW
8582.5	GKO 4	Portishead R, G	CW
	KLB	Seattle R, WA, USA	CW
8584.0	DZN	Navotas R, PHL	CW
	VPS 36	Victoria Island R, HKG	CW
	Y5M	Rügen R, D	CW
8585.0	KUQ	Pago Pago R, SMA	CW
	UFL	Vladivostok R, SE, URS	CW
8586.0	WCC	Chatham R, MA, USA	CW
	XSO	Wenzhou R, CHN	CW
8588.0	4WD 3	Hodeidah R, YEM	CW
8589.0	HPP	Panama R, PNR	CW
8590.0	**FUE**	**FN Brest, F**	**75 Bd: 0759 clg FAAC** CW
	VTK	IN Tuticorin, IND	CW
	XVS 8	Ho Chi Minh Ville R, VTN	CW
8590.5	XDA	Mexico City R, MEX	CW
8591.5	GKG 4	Portishead R, G	CW
8592.0	DZK	Bulacan R, PHL	CW
8593.0	UFB	Odessa R, UK, URS	CW
8594.0	*CCS*	*CN Santiago, CHL*	*FAX // 4766.0 kHz $*
8595.0	UFL	Vladivostok R, SE, URS	CW
8595.5	CCS	CN Santiago, CHL	CW
	VWA 1	Ramnagar Port R, IND	CW
	XFP	Chetumal R, MEX	CW
	9MG 2	Georgetown R, Pin. I., MLA	CW
8596.0	DVM 2	Makati R, PHL	CW
	RIT	SN Vaygach, RU, URS	CW
8596.5	VTK	IN Tuticorin, IND	CW
8597.0	VIP 3	Perth R, WA, AUS	CW
8598.0	OXZ 4	Lyngby R, DNK	CW
	XSL	Fuzhou R, CHN	CW
8598.4	ZLO 4	RNZN Waiouru, NZL	CW
8600.0	DXF	Davao R, PHL	CW
	ELH	Harbel R, LBR	CW
	URD	**Leningrad R, RU, URS**	**0745+1422 R tts wtsca** CW
	XSV	Tianjin R, CHN	CW
8602.0	CWA	Cerrito R, URG	CW
	UFB	Odessa R, UK, URS	CW
8602.5	HPP	Panama R, PNR	CW
8604.0	GKH 4	Portishead R, G	CW
8604.3	ZRH 4	SAN Cape Town, AFS	CW
8604.5	DZJ	Bulacan R, PHL	CW
8605.0	**UJY**	**Kaliningrad R, RU, URS**	**0005+0038+2032 ry or R tts wtsca; QSX 12631.5 kHz** CW
8606.0	CBV	DGTMMM Valpar. R, CHL	CW

8606.0	ELZ	Cape Palmas R, LBR	CW
	GKI 4	Portishead R, G	CW
	ZRQ 4	SAN Cape Town, AFS	CW
8607.0	LZW 43	Varna R, BUL	CW
8608.0	DZA	Mandaluyong R, PHL	CW
8608.5	**Y5M**	**Rügen R, D**	**0130+0200+1030 G nx, 1100 tfc list, 1330+2100 G nx** **SITOR-A: 0650-2255 tts** **SITOR-B: 1600 G nx** CW
8609.0	CLJ	Habana R, CUB	CW
8609.5	9VG 73	Singapore R, SNG	CW
8610.0	UXN	Arkhangelsk R, RU, URS	CW
8611.5	TAH	Istanbul R, TUR	CW
8612.0	PPR	Rio de Janeiro R, B	CW
8613.0	XFY	Guaymas R, MEX	CW
	XSO 4	Zhoushan R, CHN	CW
8613.2	GYC 4	RN London, G	CW
8613.3	**GYA**	**RN London, G**	**75 Bd: 24 h test**
8614.0	*NWC*	*USN Exmouth, WA, AUS*	*FAX // 5262.0 kHz $*
	URL	Sevastopol' R, UK, URS	CW
	XSJ	Zhanjiang R, CHN	CW
	ZPK	Asuncion R, PRG	CW
8615.0	UDH	Riga R, LA, URS	CW
8615.5	WPD	Tampa R, FL, USA	CW
8616.0	DYV 9	Victorias R, PHL	CW
	HAR	Budapest R, HNG	CW
8616.5	URB 2	Klaipeda R, LI, URS	CW
8617.0	XSV	Tianjin R, CHN	CW
8618.0	EDZ 4	Madrid R, E	CW
	ETC	Assab R, ETH	CW
	KPH	San Francisco R, CA, USA	CW
	UJO 5	Izmail R, UK, URS	CW
8619.0	VRN 35	Victoria Island R, HKG	CW
8620.0	DYP	Cebu R, PHL	CW
	PWL	BN Corumba, B	CW
	UBN	Zhdanov R, UK, URS	CW
8621.0	XFN	Progreso R, MEX	CW
8622.0	PCH 41	Scheveningen R, NLD	CW
	XSF	Lianyungang R, CHN	CW
8623.0	PPJ	Juncao R, B	CW
	5BA	Nicosia R, CYP	CW
8624.0	CLY	Habana R, CUB	CW
	XSQ	Guangzhou R, CHN	CW
8625.0	FUM	FN Papeete, Tahiti, OCE	CW
	YKM 7	Al Ladhiqiyah R, SYR	CW
8625.2	GYU	RN Gibraltar, GIB	CW
8626.0	**OXZ 41**	**Lyngby R, DNK**	**SITOR-A: 0050+0358 tts** CW
	PK. ..	many R stations, INS	CW
	XDA	Mexico City R, MEX	CW
8627.0	**GYU**	**RN Gibraltar, GIB**	**75 Bd: 1650-0250 foxes**
8627.5	OMC	Bratislava R, TCH	CW
	OMK	Komarno R, TCH	CW
	OMP 4	Prague R, TCH	CW
8628.0	JFA	Matsudo F R, J	CW
8628.5	NOJ	USCG Kodiak, ALS	CW
8629.0	XSD	Yingkou R, CHN	CW
8630.0	A7D	Doha R, QAT	CW
	VWB	Bombay R, IND	CW

8630.0	WCC	Chatham R, MA, USA	CW
8631.0	XFQ	Salina Cruz R, MEX	CW
8632.0	DYV	Iloilo R, PHL	CW
	XSW	Kaohsiung R, TAI	CW
8634.0	PPR	Rio de Janeiro R, B	CW
	SPH 42	Gdynia R, POL	CW
	S9M	Sao Tome R, STP	CW
	VTG 6	IN Bombay, IND	CW
	XSH	Basuo R, CHN	CW
8635.0	UJQ	Kiyev R, UK, URS	CW
8636.0	DZU	Pasig R, PHL	CW
	HLW	Soul R, KOR	CW
8638.5	DAM	Norddeich R/TS, D	CW
8640.0	UJY	Kaliningrad R, RU, URS	CW
8641.0	HIW 7	Boca Chica Pilot R, DOM	CW
	HIW 8	Puerto Plata Pilot R, DOM	CW
8641.5	'U'	Bcn. Murmansk, RU, URS	CW
8642.0	CTV 8	PN Lisbon, POR	CW
	C9C 6	MN Maputo, MOZ	CW
	HIA	Sto. Domingo Pilot R, DOM	CW
	KPH	San Francisco R, CA, USA	CW
8643.0	UKA	Vladivostok R, SE, URS	CW
8643.5	**UFB**	**Odessa R, UK, URS**	**1412+1637 R tts wtsca** CW
8644.0	PWZ	BN Rio de Janeiro, B	CW
8645.0	**UAT**	**Moscow R, RU, URS**	**SITOR-A: 2130 G nx**
	XSA 2	Nanjing R, CHN	CW
8645.5	'S'	Bcn. Arkhangelsk, RU, URS	CW
8646.0	LPD 86	General Pacheco R, ARG	CW
	SAB 4	Goeteborg R, S	CW
	VTP 6	IN Vishakhapatnam, IND	CW
	'C'	Beacon Moscow, RU, URS	CW
8646.2	'P'	Bcn. Kaliningrad, RU, URS	CW
8646.5	'F'	Bcn. Vladivostok, SE, URS	CW
8647.0	'D'	Beacon Odessa, UK, URS	CW
8647.5	JDC	Choshi R, J	CW
8648.0	DHJ 59	GN Wilhelmshaven, D	CW
	DZH	Manila R, PHL	CW
	'O'	Beacon Moscow, RU, URS	CW
8649.5	ICB	Genova R, I	CW
8650.0	NMO	USCG Honolulu, HWA	CW
	RKDF	Pärnu R, ES, URS	CW
	SPE 42	Szczecin R, POL	CW
	UTA	Tallinn R, ES, URS	CW
	XSL 22	Fangcheng R, CHN	CW
8651.0	XSI	Sanya R, CHN	CW
8651.5	HZG	Dammam R, ARS	CW
8652.0	DYD 2	Cebu R, PHL	CW
	OST 42	Oostende R, BEL	CW
8652.5	PZN 3	Paramaribo R, SUR	CW
8653.6	JCS	Choshi R, J	CW
8654.4	PCH 42	Scheveningen R, NLD	CW
8655.0	UAI 3	Nakhodka R, SE, URS	CW
8656.0	DZM	Bulacan R, PHL	CW
	IAR 38	Rome R, I	CW
	XFU	Veracruz R, MEX	CW
8657.0	FUJ	FN Noumea, NCL	CW
	UJQ	Kiyev R, UK, URS	CW
8658.0	ASK	Karachi R, PAK	CW
	S3E	Khulna R, BGD	CW

8658.0	WLO	Mobile R, AL, USA	CW
8659.5	KLC	Galveston R, TX, USA	CW
8660.0	Y5M	Rügen R, D	CW
8660.5	UJQ 7	Kiyev R, UK, URS	CW
8662.0	TAH	Istanbul R, TUR	CW
8663.0	**UFN**	**Novorossiysk R, RU, URS**	**0042 + 1336 + 1907 R tts wtsca** CW
8664.0	DZH 2	Manila R, PHL	CW
	HMZ	Pyongyang R, KRE	CW
	WSC	Tuckerton R, NJ, USA	CW
8665.0	XSG 3	Shanghai R, CHN	CW
8666.0	FUG	FN La Regine, F	CW
	KLC	Galveston R, TX, USA	CW
8666.4	SPH 43	Gdynia R, POL	CW
8667.0	YKM 5	SCOT Baniyas Port R, SYR	CW
8668.0	DVM 4	Manila R, PHL	CW
	DXD 9	Davao R, PHL	CW
8669.5	'U'	Bcn. Murmansk, RU, URS	CW
8670.0	ASK	Karachi R, PAK	CW
	IAR 8	Rome R, I	CW
	PW.	many BN stations, B	CW
8671.0	SXA 5	GN Piraeus, GRC	CW
	XSK 4	Haimen R, CHN	CW
	XSQ	Guangzhou R, CHN	CW
8672.0	DZI	Bacoor R, PHL	CW
		Prague Meteo, TCH	**(hx 4336.0 kHz)**
8672.5	DAF	Norddeich R, D	CW
8672.8	**GYA**	**RN London, G**	**75 Bd: 24 h test**
8674.0	ZPK	Asuncion R, PRG	CW
8674.4	VWM	Madras R, IND	CW
8675.0	UQB	Kholmsk R, FE, URS	CW
8676.0	DYM	Cebu R, PHL	CW
	LZS 30	BN Sofia, BUL	CW
8677.0	*CBV*	*DGTMMM Valparaiso R, CHL*	*FAX // 4228.0 kHz $* CW
8678.0	LFB	Rogaland R, NOR	CW
	SPH 44	Gdynia R, POL	CW
	XSZ	Dalian R, CHN	CW
	ZLP 4	RNZN Waiouru, NZL	CW
8679.0	IQX	Trieste R, I	CW
8680.0	DYE 9	Cebu R, PHL	CW
	RMP	SN Kaliningrad, RU, URS	CW
	UQB	Kholmsk R, FE, URS	CW
	WSC	Tuckerton R, NJ, USA	CW
	XUK 4	Kompong Som Ville R, CBG	CW
8681.0	SVI 4	Athens R, GRC	CW
8682.0	EAD 3	Madrid R, E	CW
	J2A 8	Jibuti R, DJI	CW
	NMC	*USCG San Francisco, CA, USA*	*FAX // 4346.0 kHz $* CW
8683.5	**LFB 2**	**Rogaland R, NOR**	**SITOR-A: 24 h tts** CW
8684.0	GKJ 4	Portishead R, G	CW
	LZL 4	Bourgas R, BUL	CW
8685.0	IRM	CIRM Rome, I	CW
8686.0	CNP	Casablanca R, MRC	CW
	C2N	Makwa R, NRU	CW
	HSA 2	Bangkok R, THA	CW
	JCT	Choshi R, J	CW
	PK. ..	many R stations, INS	CW

8687.0	SVA 4	Athens R, GRC	CW
8687.6	URD	Leningrad R, RU, URS	CW
8688.0	DUN	PN Manila, PHL	CW
	WNU	Slidell R, LA, USA	CW
	9VG 36	Singapore R, SNG	CW
8688.5	ZSC 6	Cape Town R, AFS	CW
8690.0	CLA 22	Habana R, CUB	CW
	FJY 4	Martin de Vivies R, AMS	CW
	SVF 4	Athens R, GRC	CW
	TFA	Reykjavik R, ISL	CW
	UMV	Murmansk R, RU, URS	CW
	XF. .	many PEMEX R st., MEX	CW
	3DP	Suva R, FJI	CW
	6VA 5	Dakar R, SEN	CW
8692.0	DZO 9	Manila R, PHL	CW
8692.5	SVF 4	Athens R, GRC	CW
8694.0	ASK	Karachi R, PAK	CW
	CBM	DGTMMM Magall. R, CHL	CW
	D3E 52	Luanda R, AGL	CW
	PJC	Willemst. R, Curacao, ATN	CW
	PKM	Bitung R, INS	CW
	PNK	Jayapura R, INS	CW
	S3D	Chittagong R, BGD	CW
	XSZ	Dalian R, CHN	CW
	XVN 3	Nha Trang R, VTN	CW
	4XO	Haifa R, ISR	CW
8695.0	**UHK**	**Batumi R, GE, URS**	**1339 ry, R tts wtsca; 1425 R tts wtsca**
			CW
8696.0	DZN 4	Manila R, PHL	CW
	Y5M	Rügen R, D	CW
	ZAD 2	Durres R, ALB	CW
	9GX	Tema R, GHA	CW
8697.0	CFH	CF Halifax, NS, CAN	CW
8698.0	C9L 2	Maputo R, MOZ	CW
	C9L 6	Mocambique R, MOZ	CW
	EQM	Bushire R, IRN	CW
	EQN	Khomeini R, IRN	CW
	EQQ	Khark R, IRN	CW
	FJP 8	Noumea R, NCL	CW
	J..	many R stations, J	CW
	UDK 2	Murmansk R, RU, URS	CW
	5OW 8	Lagos R, NIG	CW
	9MG 2	Georgetown R, Pin. I., MLA	CW
8699.5	CTU 28	PN Lisbon, POR	CW
8700.0	YUR 3	Rijeka R, YUG	CW
8700.4	HKB	Barranquilla R, CLM	CW
8701.0	**UNM 2**	**Klaipeda R, LI, URS**	**0752+0800+1906+2125 R tts wtsca**
			CW
8702.0	LST 9	YPF Buenos Aires R, ARG	CW
	LSU 5	YPF C. Rivadavia R, ARG	CW
	ODR 3	Beirut R, LBN	CW
	XSR	Haikou R, CHN	CW
	3AC 18	Monte Carlo R, MCO	CW
8704.0	DVZ 9	Navotas R, PHL	CW
	SVB 4	Athens R, GRC	CW
8705.0		coast stations, channel 1	QSX 8344.0 kHz
	DCN	*Norddeich R, D*	*scheduled*
	IAR	Rome R, I	CW

8705.0	*KFS*	*San Francisco R, CA, USA*	*scheduled* CW
	UHK	*Batumi R, GE, URS*	*scheduled*
	UNM 2	*Klaipeda R, LI, URS*	*scheduled*
	Y5M	Rügen R, D	SITOR-A: 0924-0046 tts CW
	9MG	Georgetown R, Pin. I., MLA	SITOR-A: 0041 + 1420 tts
8705.5		coast stations, channel 2	QSX 8344.5 kHz
	EHY	*Madrid R, E*	*scheduled*
	GKE 4	Portishead R, G	SITOR-A: 24 h tts SITOR-B: 0700 + 0900 tfc list, 2100 schedule, 2130 tfc list CW
	UMV	*Murmansk R, RU, URS*	*scheduled*
	WNU	*Slidell R, LA, USA*	*scheduled* CW
	ZLW	*Wellington R, NZL*	*scheduled*
8706.0		coast stations, channel 3	QSX 8345.0 kHz
	KFS	*San Francisco R, CA, USA*	*scheduled* CW
	OST 46	*Oostende R, BEL*	*scheduled*
	SPA	Gdynia R, POL	SITOR-A: 24 h tts CW
	XSV	*Tianjin R, CHN*	*scheduled*
	3CA 7	Malabo R, GNE	CW
8706.5		coast stations, channel 4	QSX 8345.5 kHz
	DCM	*Norddeich R, D*	*scheduled*
	IAR	Rome R, I	SITOR-A: 0537-1910 tts CW
	LSD 836	*Buenos Aires R, ARG*	*scheduled*
	UFN	Novorossiysk R, RU, URS	SITOR-A: 1802-0402 R tts wtsca CW
	9VG 40	Singapore R, SNG	SITOR-A: 1102 + 1108 + 2010 tts CW
8707.0		coast stations, channel 5	QSX 8346.0 kHz
	ETC	*Assab R, ETH*	*scheduled*
	HZG	*Dammam R, ARS*	*scheduled*
	J2A	*Jibuti R, DJI*	*scheduled*
	LGB 2	Rogaland R, NOR	SITOR-A: 0801-0225 tts SITOR-B: 0700 + 1700 N nx, 1720 tfc list, 1900 N nx, 2000 tfc list CW
	WLO	Mobile R, AL, USA	SITOR-A: 0008 + 0127 + 0320 + 1455 tts SITOR-B: 0000 + 0530 + 0615 + 2230 wx CW
	5RS	*Toamasina R, MDG*	*scheduled*
8707.5		coast stations, channel 6	QSX 8346.5 kHz
	IAR	*Rome R, I*	*scheduled*
	LSD 836	*Buenos Aires R, ARG*	*scheduled*
	UAT	Moscow R, RU, URS	SITOR-A: 0400 + 0520 + 0624 R tts wtsca, 1600 G nx, 1912-2256 R tts wtsca CW
	VIP 33	Perth R, WA, AUS	SITOR-A: 1109 + 1113 + 1911 + 2202 tts CW

8707.5	WLO	Mobile R, AL, USA	SITOR-A: 2308 tts CW
8708.0		coast stations, channel 7	QSX 8347.0 kHz
	LSD 836	*Buenos Aires R, ARG*	*scheduled*
	NMF	*USCG Boston, MA, USA*	*scheduled*
	SAB 407	Goeteborg R, S	SITOR-A: 24 h tts
	WAH	*Saint Thomas R, VIR*	*scheduled*
	XSG	*Shanghai R, CHN*	*scheduled*
	YUS	*Split R, YUG*	*scheduled*
8708.5		coast stations, channel 8	QSX 8347.5 kHz
	FFT 41	Saint Lys R, F	SITOR-A: 24 h tts SITOR-B: 0300 + 0400 + 0800 + 0900 + 1100 + 1200 + 1300 + 1500 + 1600 + 1700 + 1800 + 1900 + 2000 + 2100 + 2300 tfc list or wx CW
	NMF	*USCG Boston, MA, USA*	*scheduled*
	SPB 42	Szczecin R, POL	SITOR-A: 1425 + 2148 tts CW
	UBE 2	*Petropavl.-Km. R, FE, URS*	*scheduled*
	UXN	*Arkhangelsk R, RU, URS*	*scheduled*
	WPD	Tampa R, FL, USA	SITOR-B: 1320 + 2220 wx CW
8709.0		coast stations, channel 9	QSX 8348.0 kHz
	CBV	*DGTMMM Valpar. R, CHL*	*scheduled*
	HEC 18	Berne R, SUI	SITOR-A: 24 h tts SITOR-B: 1430 + 2130 tfc list CW
	HPP	*Panama R, PNR*	*scheduled*
	KLC	*Galveston R, TX, USA*	*scheduled* CW
	S9M	*Sao Tome R, STP*	*scheduled*
	UFB	*Odessa R, UK, URS*	*scheduled*
	UFL	Vladivostok R, SE, URS	0644 + 0654 R tts wtsca
	UFN	Novorossiysk R, RU, URS	SITOR-A: 0048 + 0547 R tts wtsca CW
	9VG 78	Singapore R, SNG	SITOR-A: 24 h tts CW
8709.5		coast stations, channel 10	QSX 8348.5 kHz
	A7D	*Doha R, QAT*	*scheduled* CW
	CUL	*Lisbon R, POR*	*scheduled*
	OXZ	Lyngby R, DNK	SITOR-A: 24 h tts SITOR-B: 0930 tfc list CW
	UDH	*Riga R, LA, URS*	*scheduled*
	UQB	Kholmsk R, FE, URS	1104 R tts wtsca
	WLO	*Mobile R, AL, USA*	*scheduled*
8710.0		coast stations, channel 11	QSX 8349.0 kHz
	CBV	*DGTMMM Valpar. R, CHL*	*scheduled*
	LZW	Varna R, BUL	SITOR-A: 0653 + 1430 tts CW
	UCO	*Yalta R, UK, URS*	*scheduled*
	URD	*Leningrad R, RU, URS*	*scheduled*
	VPS 38	Victoria Island R, HKG	SITOR-A: 2149-1125 tts CW
	WLO	*Mobile R, AL, USA*	*scheduled*
	XSQ	*Guangzhou R, CHN*	*scheduled*
	YUR	*Rijeka R, YUG*	*scheduled*

8710.0	9LL	Freetown R, SRL	CW
8710.5		coast stations, channel 12	QSX 8349.5 kHz
	IAR	*Rome R, I*	*scheduled*
	NMF	*USCG Boston, MA, USA*	*scheduled*
	NRV	USCG Apra Harbour, GUM	SITOR-B: 1500 wx
	OST 47	*Oostende R, BEL*	*scheduled*
	UAH	Tallinn R, ES, URS	SITOR-A: 0605-1849 R tts wtsca SITOR-B: 1110 R navigational warnings wtsca CW
	UPB	*Provideniya R, FE, URS*	*scheduled*
	VIS 84	*Sydney R, NSW, AUS*	*scheduled*
	YUR	*Rijeka R, YUG*	*scheduled*
8711.0		coast stations, channel 13	QSX 8350.0 kHz
	GKP 4	Portishead R, G	SITOR-A: 24 h tts CW
	KPH	*San Francisco R, CA, USA*	*scheduled*
	UBN	*Zhdanov R, UK, URS*	*scheduled*
	WCC	*Chatham R, MA, USA*	*scheduled*
8711.5		coast stations, channel 14	QSX 8350.5 kHz
	IAR	*Rome R, I*	*scheduled*
	KPH	*San Francisco R, CA, USA*	*scheduled*
	LZW	Varna R, BUL	CW
	SVT 4	*Athens R, GRC*	*scheduled*
	UFN	Novorossiysk R, RU, URS	SITOR-A: 0906 + 1612-0545 R tts wtsca CW
	URD	Leningrad R, RU, URS	SITOR-A: 0401 + 1811 R tts wtsca CW
	VIS 65	Sydney R, NSW, AUS	SITOR-A: 1110 + 1125 tts CW
	WCC	*Chatham R, MA, USA*	*scheduled*
	Y5M	*Rügen R, D*	*scheduled*
8712.0		coast stations, channel 15	QSX 8351.0 kHz
	DCL	*Norddeich R, D*	*scheduled*
	UAH	Tallinn R, ES, URS	CW
	WLO	Mobile R, AL, USA	SITOR-A: 0319 + 0524 tts CW
	3AC 28	*Monte Carlo R, MCO*	*scheduled*
8712.5		coast stations, channel 16	QSX 8351.5 kHz
	COB 36	*Flota Cubana F R, CUB*	*scheduled*
	FFT 42	*Saint Lys R, F*	*scheduled*
	SVU 4	*Athens R, GRC*	*scheduled*
	UDK 2	*Murmansk R, RU, URS*	*scheduled*
	WCC	Chatham R, MA, USA	SITOR-A: 0402 + 0534 + 2206 + 2306 tts SITOR-B: 0515 wx CW
8713.0		coast stations, channel 17	QSX 8352.0 kHz
	HPP	*Panama R, PNR*	*scheduled*
	KLC	*Galveston R, TX, USA*	*scheduled*
	PCH 45	Scheveningen R, NLD	SITOR-A: 24 h tts SITOR-B: 1800 tfc list CW
	VPS 39	*Victoria Island R, HKG*	*scheduled*
8713.5		coast stations, channel 18	QSX 8352.5 kHz
	FFT 43	Saint Lys R, F	SITOR-A: 0544-2346 tts CW
8714.0		coast stations, channel 19	QSX 8353.0 kHz
	GKY 4	*Portishead R, G*	*scheduled*

8714.0	HEC 28	Berne R, SUI	SITOR-A: 24 h tts CW
	9PA	*Banana R, ZAI*	*scheduled*
8714.5		coast stations, channel 20	QSX 8353.5 kHz
	EHY	*Madrid R, E*	*scheduled*
	IAR	*Rome R, I*	*scheduled*
	ICB	Genova R, I	SITOR-A: 0927 tts CW
	NMC	USCG San Francisco, CA, USA	SITOR-A: 0523+0645 tts CW
	VRT	*Hamilton R, BER*	*scheduled*
8715.0		coast stations, channel 21	QSX 8354.0 kHz
	KPH	*San Francisco R, CA, USA*	*scheduled*
	LGB 3	*Rogaland R, NOR*	*scheduled*
	SPB	Szczecin R, POL	SITOR-A: 0132+0405+0933+1354+1903 tts CW
	WCC	Chatham R, MA, USA	SITOR-A: 1858-0820 tts SITOR-B: 0430+1700 wx CW
	3AC 38	*Monte Carlo R, MCO*	*scheduled*
	9VG 79	Singapore R, SNG	SITOR-A: 0730-1124+2038-0136 tts CW
8715.5		coast stations, channel 22	QSX 8354.5 kHz
	A7D	*Doha R, QAT*	*scheduled*
	KLC	*Galveston R, TX, USA*	*scheduled*
	KPH	*San Francisco R, CA, USA*	*scheduled*
	OXZ	*Lyngby R, DNK*	*scheduled*
	URL	Sevastopol' R, UK, URS	CW
	Y5M	*Rügen R, D*	*scheduled*
8716.0		coast stations, channel 23	QSX 8355.0 kHz
	A9M	*Hamala R, BHR*	*scheduled* CW
	DCF	*Norddeich R, D*	*scheduled*
	UKX	*Nakhodka R, SE, URS*	*scheduled*
	YUR	Rijeka R, YUG	SITOR-A: 24 h tts CW
	YUW	*Bar R, YUG*	*scheduled* CW
8716.5		coast stations, channel 24	QSX 8355.5 kHz
	NMN	USCG Portsmouth, VA, USA	SITOR-A: 2131-0657 tts CW
	SAB 424	Goeteborg R, S	SITOR-A: 24 h tts
	UJQ	*Kiyev R, UK, URS*	*scheduled*
	UQK	*Riga R, LA, URS*	*scheduled*
	VCS	*CCG Halifax, NS, CAN*	*scheduled*
8717.0		coast stations, channel 25	QSX 8356.0 kHz
	PCH 46	Scheveningen R, NLD	SITOR-A: 24 h tts SITOR-B: 1115 tfc list CW
	UFH	Petropavl.-Km. R, FE, URS	0208+0213+0220 R tts wtsca
	UFM 3	*Nevelsk R, FE, URS*	*scheduled*
	VAI	*CCG Vancouver, BC, CAN*	*scheduled*
	VWM	*Madras R, IND*	*scheduled*
	ZSC 62	Cape Town R, AFS	SITOR-A: 0735+1958 tts CW
8717.5		coast stations, channel 26	QSX 8356.5 kHz
	CLA	*Habana R, CUB*	*scheduled*

8717.5	**EHY**	**Madrid R, E**	**SITOR-A: 24 h tts** **CW**
	FFT 44	***Saint Lys R, F***	***scheduled*** **CW**
	HEC 38	**Berne R, SUI**	**SITOR-B: 0700 tfc list**
	UGH 2	***Juzno R, FE, URS***	***scheduled***
	URB 2	***Klaipeda R, LI, URS***	***scheduled***
	WLO	**Mobile R, AL, USA**	**SITOR-A: 2034-0531 tts** **CW**
	Y5M	***Rügen R, D***	***scheduled***
8718.0		**coast stations, channel 27**	**QSX 8357.0 kHz**
	GKQ 4	**Portishead R, G**	**SITOR-A: 24 h tts** **CW**
	IDR 4	**IN Rome, I**	**CW**
	NMN	***USCG Portsm., VA, USA***	***scheduled***
	NMO	**USCG Honolulu, HWA**	**SITOR-B: 0330 + 1330 wx**
	TJC 7	**Douala R, CME**	**CW**
	8Q2	***Male R, MLD***	***scheduled***
8718.5	**WORLDWIDE**	**COAST STATIONS DSC FREQ.**	
8718.9		coast stations, ch 801	SSB QSX 8195.0 kHz
	A9M	Hamala R, BHR	
	CB./..	many DGTMMM R st., CHL	
	CBM 9	ETAL Punta Arenas R, CHL	
	DVG 8	Quezon City R, PHL	
	DVG 9	Albay R, PHL	
	LFL 2	Rogaland R, NOR	
	OXZ	Lyngby R, DNK	
	SAG	Goeteborg R, S	
	S3D	Chittagong R, BGD	
	ZSV 32	Walvis Bay R, NMB	
	4XO	Haifa R, ISR	
	9MG 9	Georgetown R, Pin. I., MLA	
8722.0		coast stations, ch 802	SSB QSX 8198.1 kHz
	CUL	Lisbon R, POR	
	DVP 3	Quezon City R, PHL	
	DVR 3	Manila R, PHL	
	DZK 3	Manila R, PHL	
	D3E	Luanda R, AGL	
	GKT 42	Portishead R, G	
	J5M	Bissau R, GNB	
	OHG 2	Helsinki R, FNL	
	SVN 4	Athens R, GRC	
	VIS	Sydney R, NSW, AUS	
	VWM	Madras R, IND	
	WOM	Pennsuco R, FL, USA	
	Y5M	Rügen R, D	
	7TA 20	El Djaza'ir R, ALG	
	7TF	Skikda R, ALG	
8725.1		coast stations, ch 803	SSB QSX 8201.2 kHz
	ASK	Karachi R, PAK	
	COB 32	Flota del Golfo F R, CUB	
	COB 34	Flota Atunera F R, CUB	
	COB 36	Flota Cubana F R, CUB	
	DZC 7	Malabon R, PHL	
	DZQ 9	Navotas R, PHL	
	EHY	Madrid R, E	
	HEB 48	Berne R, SUI	
	HLS	Soul R, KOR	
	LFL 3	Rogaland R, NOR	
	OSU 46	Oostende R, BEL	

8725.1	PJC	Willemst. R, Curacao, ATN		
	SAG	Goeteborg R, S		
	TAM	Mersin R, TUR		
	URB 2	Klaipeda R, LI, URS		
	URD	Leningrad R, RU, URS		
	WFN	Jeffersonville R, IN, USA		
	ZSQ 23	Port Elizabeth R, AFS		
	4PB	Colombo R, SLK		
	6VA	Dakar R, SEN		
8728.2		coast stations, ch 804	SSB	QSX 8204.3 kHz
	A7D	Doha R, QAT		
	DV. 7	Navotas R, PHL		
	EHY	Madrid R, E		
	JYO	Aqaba R, JOR		
	KMI	Dixon R, CA, USA		
	OBC 3	Callao R, PRU		
	OHG 2	Helsinki R, FNL		
	SPC 43	Gdynia R, POL		
	S9M	Sao Tome R, STP		
	UJB	Astrakhan' R, RU, URS		
	UKQ 2	Nakhodka R, SE, URS		
	WAH	Saint Thomas R, VIR		
	3AC 8	Monte Carlo R, MCO		
	9LL	Freetown R, SRL		
	9VG 63	Singapore R, SNG		
8731.3		coast stations, ch 805	SSB	QSX 8207.4 kHz
	DXS 3	General Santos City R, PHL		
	DYF 5	Negros R, PHL		
	EQI	Abbas R, IRN		
	ETC	Assab R, ETH		
	FJP 9	Noumea R, NCL		
	HCG	Guayaquil R, EQA		
	OHG 2	Helsinki R, FNL		
	OSU 43	Oostende R, BEL		
	PCG 42	Scheveningen R, NLD		
	P2M	Port Moresby R, PNG		
	P2R	Rabaul R, PNG		
	TFA	Reykjavik R, ISL		
	UCZ	Provideniya R, FE, URS		
	UIK	Vladivostok R, SE, URS		
	VPS	Victoria Island R, HKG		
	WOM	Pennsuco R, FL, USA		
	ZAD	Durres R, ALB		
	ZSC 26	Cape Town R, AFS		
	4XO	Haifa R, ISR		
8734.4		coast stations, ch 806	SSB	QSX 8210.5 kHz
	A9M	Hamala R, BHR		
	ICB	Genova R, I		
	KUQ	Pago Pago R, SMA		
	OSU 44	Oostende R, BEL		
	PCG 43	Scheveningen R, NLD		
	SPC 44	Gdynia R, POL		
	SVN 4	Athens R, GRC		
	S3D	Chittagong R, BGD		
	VIP	Perth R, WA, AUS		
		Abidjan F R, CTI		
8737.5		coast stations, ch 807	SSB	QSX 8213.6 kHz
	CB./..	many DGTMMM R st., CHL		
	DVY 4	Malabon R, PHL		
	DZN 3	Navotas R, PHL		

8737.5	GYU	RN Gibraltar, GIB		
	OMP	Prague R, TCH		
	TFA	Reykjavik R, ISL		
	URD	Leningrad R, RU, URS		
	VAI	CCG Vancouver, BC, CAN		
	WGK	Saint Louis R, MO, USA		
	ZBI	Georgetown R, ASC		
	ZHH	Jamestown R, SHN		
	ZLW	Wellington R, NZL		
	5BA 42	Nicosia R, CYP		
	5RS	Toamasina R, MDG		
	8Q2	Male R, MLD		
	9HD	Valetta R, MLT		
	9KK 7	Safat R, KWT		
8740.6		coast stations, ch 808	SSB	QSX 8216.7 kHz
	C6N 55	Coral Harbour R, BAH		
	DZZ	Manila R, PHL		
	HZG	Dammam R, ARS		
	LFL 4	Rogaland R, NOR		
	LPZ 87	Trelew R, ARG		
	OXZ	Lyngby R, DNK		
	P.. ...	many R stations, B		
	PZN	Paramaribo R, SUR		
	SAG	Goeteborg R, S		
	SVN 4	Athens R, GRC		
	WOO	Ocean Gate R, NJ, USA		
	YKM 7	Al Ladhiqiyah R, SYR		
	ZBI	Georgetown R, ASC		
	ZSD 38	Durban R, AFS		
	ZXA 4	Tedut R, B		
	ZXF 3	Bavit R, B		
	ZZQ 8	Denor R, B		
		Roseau Port R, DMA		
8743.7		coast stations, ch 809	SSB	QSX 8219.8 kHz
	ASK	Karachi R, PAK		
	CB./..	many DGTMMM R st., CHL		
	CLA 64	Habana R, CUB		
	KMI	Dixon R, CA, USA		
	LFL 5	Rogaland R, NOR		
	OHG 2	Helsinki R, FNL		
	OMC	Bratislava R, TCH		
	OMK	Komarno R, TCH		
	OML	Decin R, TCH		
	SVN 4	Athens R, GRC		
	TFA	Reykjavik R, ISL		
	WAH	Saint Thomas R, VIR		
	XFA	Acapulco R, MEX		
	XFB	Ciudad del Carmen R, MEX		
	XFC	Cozumel R, MEX		
	XF. .	many PEMEX R st., MEX		
	Y5M	Rügen R, D		
	3AC 9	Monte Carlo R, MCO		
	4PB	Colombo R, SLK		
	7TA 21	El Djaza'ir R, ALG		
	7TF	Skikda R, ALG		
	9KK 72	Safat R, KWT		
8746.8		coast stations, ch 810	SSB	QSX 8222.9 kHz
	CFH	CF Halifax, NS, CAN		
	DVC 8	Navotas R, PHL		
	EHY	Madrid R, E		

8746.8	EQM	Bushire R, IRN		
	JBO	Tokyo R, J		
	LFL 6	Rogaland R, NOR		
	LPB 9	Corrientes R, ARG		
	PKB	Belawan R, INS		
	PKF 3	Kendari R, INS		
	PKN	Balikpapan R, INS		
	SPO 41	Szczecin R, POL		
	S3D	Chittagong R, BGD		
	TAT	Canakkale R, TUR		
	WOM	Pennsuco R, FL, USA		
	XSQ	Guangzhou R, CHN		
	YUR	Rijeka R, YUG		
	3DP	Suva R, FJI		
8749.9		coast stations, ch 811	SSB	QSX 8226.0 kHz
	DVR 9	Navotas R, PHL		
	DZD 8	Manila R, PHL		
	FUB	FN Paris, F		
	HAR	Budapest R, HNG		
	HZG	Dammam R, ARS		
	LFL 7	Rogaland R, NOR		
	LPM 97	Mar del Plata R, ARG		
	OB. .	many R stations, PRU		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
	TAH	Istanbul R, TUR		
	VI.	many R stations, AUS		
	VPS	Victoria Island R, HKG		
	WOO	Ocean Gate R, NJ, USA		
	YUR	Rijeka R, YUG		
8753.0		coast stations, ch 812	SSB	QSX 8229.1 kHz
	DVW 2	Manila R, PHL		
	DZC 2	Navotas R, PHL		
	JBO	Tokyo R, J		
	LPC 34	Ushuaia R, ARG		
	OSU 49	Oostende R, BEL		
	PKX	Jakarta R, INS		
	SPC 41	Gdynia R, POL		
	UFA	Batumi R, GE, URS		
	VFF	CCG Iqaluit, NWT, CAN		
	XSG	Shanghai R, CHN		
	4XO	Haifa R, ISR		
	6YI	Kingston R, JMC		
	9PA	Banana R, ZAI		
8756.1		coast stations, ch 813	SSB	QSX 8232.2 kHz
	CB./..	many DGTMMM R st., CHL		
	DVB 4	Malabon R, PHL		
	D3E	Luanda R, AGL		
	D4A	Mindelo R, S. Vicente, CPV		
	HAR	Budapest R, HNG		
	J5M	Bissau R, GNB		
	LFL 8	Rogaland R, NOR		
	OSU 45	Oostende R, BEL		
	OXZ	Lyngby R, DNK		
	VWB	Bombay R, IND		
	XSV	Tianjin R, CHN		
	YKO	Tartus R, SYR		
	7TA 22	El Djaza'ir R, ALG		
8759.2		coast stations, ch 814	SSB	QSX 8235.3 kHz
	CFW	Vancouver R, BC, CAN		

8759.2	CLA 67	Habana R, CUB		
	DZJ	Bulacan R, PHL		
	HSA 21	Bangkok R, THA		
	IAR	Rome R, I		
	JBO	Tokyo R, J		
	KMI	Dixon R, CA, USA		
	LPL 3	General Pacheco R, ARG		
	PK. ..	many R stations, INS		
	SVN 4	Athens R, GRC		
	S9M	Sao Tome R, STP		
	T3C	Takaronga R, T. Atl., KIR		
	UGH 2	Juzno R, FE, URS		
	UQK	Riga R, LA, URS		
8760.2	**GYA**	**RN London, G**	**75 Bd:**	**1110 test**
8762.3		coast stations, ch 815	SSB	QSX 8238.4 kHz
	CB./..	many DGTMMM R st., CHL		
	DAK	Norddeich R, D		
	DVG 2	Quezon City R, PHL		
	DVR 8	Navotas R, PHL		
	DZE 4	Malabon R, PHL		
	OSU 41	Oostende R, BEL		
	UDN	Novorossiysk R, RU, URS		
	VID	Darwin R, NT, AUS		
	VIP	Perth R, WA, AUS		
	WOO	Ocean Gate R, NJ, USA		
	XSQ	Guangzhou R, CHN		
	9PA	Banana R, ZAI		
	9VG 64	Singapore R, SNG		
8765.4		coast stations, ch 816	SSB	QSX 8241.5 kHz
	DYT 3	Cebu R, PHL		
	EHY	Madrid R, E		
	GKU 46	Portishead R, G		
	LPG 87	Rio Gallegos R, ARG		
	N..	many USCG stations		
	PKG	Banjarmasin R, INS		
	PKP	Dumai R, INS		
	XSU	Yantai R, CHN		
	XSV	Tianjin R, CHN		
	8PO	Bridgetown R, BRB		
8768.5		coast stations, ch 817	SSB	QSX 8244.6 kHz
	CB./..	many DGTMMM R st., CHL		
	C2N	Makwa R, NRU		
	DAJ	Norddeich R, D		
	DZI	Bacoor R, PHL		
	EQO	Nowshahr R, IRN		
	FFL 43	Saint Lys R, F		
	HPP 20	Panama R, PNR		
	SUH	Alexandria R, EGY		
	S3E	Khulna R, BGD		
	UKI	Nakhodka R, SE, URS		
	VIA	Adelaide R, SA, AUS		
	VIT	Townsville R, QLD, AUS		
	VRT	Hamilton R, BER		
	XF./.	many PEMEX/R st., MEX		
	5OW	Lagos R, NIG		
8771.6		coast stations, ch 818	SSB	QSX 8247.7 kHz
	ASK	Karachi R, PAK		
	DYS 9	Cebu R, PHL		
	DZD 4	Manila R, PHL		
	DZR 2	Navotas R, PHL		

8771.6	LFL 9	Rogaland R, NOR		
	LPW 97	Bahia Blanca R, ARG		
	OXZ	Lyngby R, DNK		
	P.. ...	many R stations, B		
	SAG	Goeteborg R, S		
	S7Q	Victoria R, Mahe, SEY		
	TJC	Douala R, CME		
	XSG	Shanghai R, CHN		
	YJM	Port-Vila R, Efate I., VUT		
	Z.. .	many R stations, B		
	5AT	Tripoli R, LBY		
	5BA 44	Nicosia R, CYP		
	9MG 9	Georgetown R, Pin. I., MLA		
8774.7		coast stations, ch 819	SSB	QSX 8250.8 kHz
	CBV	DGTMMM Valpar. R, CHL		
	CBV 3	DGTMMM Hanga R. R, PAQ		
	CKN	CF Vancouver, BC, CAN		
	DZS 4	Manila R, PHL		
	GKU 49	Portishead R, G		
	HPP 20	Panama R, PNR		
	IAR	Rome R, I		
	PKU	Kalianget R, INS		
	PP.	many R stations, B		
	SVN 4	Athens R, GRC		
	UDK	Murmansk R, RU, URS		
	5OW	Lagos R, NIG		
	7OA	Aden R, YEM		
8777.8		coast stations, ch 820	SSB	QSX 8253.9 kHz
	DAI	Norddeich R, D		
	D.. .	many R stations, PHL		
	D4D	Praia R, Santiago, CPV		
	EQL	Anzali R, IRN		
	IAR	Rome R, I		
	JBO	Tokyo R, J		
	SVN 4	Athens R, GRC		
	5BA 46	Nicosia R, CYP		
	5WA	Apia R, SMO		
	9PA	Banana R, ZAI		
8780.9		coast stations, ch 821 (WORLDWIDE CALLING FREQ.)	SSB	QSX 8257.0 kHz
8784.0		coast stations, ch 822	SSB	QSX 8260.1 kHz
	D.. .	many R stations, PHL		
	GKV 42	Portishead R, G		
	HAR	Budapest R, HNG		
	HEB 18	Berne R, SUI		
	KMI	Dixon R, CA, USA		
	PPA	Salvador R, B		
	PPL	Belem R, B		
	PPR	Rio de Janeiro R, B		
	S3E	Khulna R, BGD		
	TUA	Abidjan R, CTI		
	UJQ	Kiyev R, UK, URS		
	VIT	Townsville R, QLD, AUS		
	XSQ	Guangzhou R, CHN		
	YUS	Split R, YUG		
	YVG	La Guayra R, VEN		
	5ZF	Mombasa R, KEN		
8787.1		coast stations, ch 823	SSB	QSX 8263.2 kHz
	DZN 9	Navotas R, PHL		
	ICB	Genova R, I		

8787.1	LFL 20	Rogaland R, NOR		
	LPO 87	Puerto Deseado R, ARG		
	OXZ	Lyngby R, DNK		
	PKT	Dili R, INS		
	SAG	Goeteborg R, S		
	SVN 4	Athens R, GRC		
	UGE	Arkhangelsk R, RU, URS		
	VCS	CCG Halifax, NS, CAN		
	9GA	Takoradi R, GHA		
8790.2		coast stations, ch 824	SSB	QSX 8266.3 kHz
	A4M	Muscat R, OMA		
	DAP	Norddeich R, D		
	DZB 3	Manila R, PHL		
	EQ.	many R stations, IRN		
	HEB 28	Berne R, SUI		
	OBY 2	Paita R, PRU		
	PP.	many R stations, B		
	SPC 42	Gdynia R, POL		
	UMN	Murmansk R, RU, URS		
	WLO	Mobile R, AL, USA		
	9VG 65	Singapore R, SNG		
8793.3		coast stations, ch 825	SSB	QSX 8269.4 kHz
	DYP	Cebu R, PHL		
	DZD 2	Navotas R, PHL		
	FFL 42	Saint Lys R, F		
	FJY 4	Martin de Vivies R, AMS		
	HAR	Budapest R, HNG		
	LFL 21	Rogaland R, NOR		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
	UBE 4	Petropavl.-Km. R, FE, URS		
	VFR	CCG Resolute, NWT, CAN		
	WOM	Pennsuco R, FL, USA		
	ZKR	Avarua R, Rarotg. I., CKH		
	7TA 23	El Djaza'ir R, ALG		
	8PO	Bridgetown R, BRB		
	9GX	Tema R, GHA		
8796.4		coast stations, ch 826	SSB	QSX 8272.5 kHz
	A7D	Doha R, QAT		
	DYU 3	Roxas R, PHL		
	GKV 46	Portishead R, G		
	HKB	Barranquilla R, CLM		
	HKC	Buenaventura R, CLM		
	IAR	Rome R, I		
	PCG 41	Scheveningen R, NLD		
	PK. ..	many R stations, INS		
	WBL	Buffalo R, NY, USA		
	WLC	Rogers City R, MI, USA		
	WMI	Lorain R, OH, USA		
	WOO	Ocean Gate R, NJ, USA		
	XDA	Mexico City R, MEX		
	XFE	Ensenada R, MEX		
	XFL	Mazatlan R, MEX		
	XF. .	many PEMEX R st., MEX		
	XSV	Tianjin R, CHN		
	Y5M	Rügen R, D		
8799.5		coast stations, ch 827	SSB	QSX 8275.6 kHz
	DVR 5	Caloocan City R, PHL		
	DYC 7	Bacolod R, PHL		
	DZM 6	Makati R, PHL		

8799.5	ELH	Harbel R, LBR		
	HLS	Soul R, KOR		
	J2A	Jibuti R, DJI		
	LFL 22	Rogaland R, NOR		
	OBF 4	Mollendo R, PRU		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
	S3D	Chittagong R, BGD		
	YUW	Bar R, YUG		
	4XO	Haifa R, ISR		
		Sapele Port R, NIG		
8802.6		coast stations, ch 828	SSB	QSX 8278.7 kHz
	CNP	Casablanca R, MRC		
	DAH	Norddeich R, D		
	D.. .	many R stations, PHL		
	FFL 44	Saint Lys R, F		
	FUB	FN Paris, F		
	HAR	Budapest R, HNG		
	LFL 23	Rogaland R, NOR		
	ODR 7	Beirut R, LBN		
	P.. ..	many R stations, INS		
	PP.	many R stations, B		
	TJC	Douala R, CME		
	3BB	Port Louis Harbour R, MAU		
8805.7		coast stations, ch 829	SSB	QSX 8281.8 kHz
	DZL 9	Manila R, PHL		
	EQN	Khomeini R, IRN		
	FJA	Papeete R, Tahiti, OCE		
	LFL 24	Rogaland R, NOR		
	OHG 2	Helsinki R, FNL		
	OSU 42	Oostende R, BEL		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
	S3E	Khulna R, BGD		
	VIS	Sydney R, NSW, AUS		
	WLO	Mobile R, AL, USA		
	XDA	Mexico City R, MEX		
	XFN	Progreso R, MEX		
	XFU	Veracruz R, MEX		
	XFY	Guaymas R, MEX		
	XF. .	many PEMEX R st., MEX		
	XSG	Shanghai R, CHN		
	ZPB	Asuncion R, PRG		
	5AB	Benghazi R, LBY		
	5BA 48	Nicosia R, CYP		
	8Q2	Male R, MLD		
8808.8		coast stations, ch 830	SSB	QSX 8284.9 kHz
	D.. .	many R stations, PHL		
	FFL 41	Saint Lys R, F		
	OBQ 5	Iquitos R, PRU		
	PK. .	many R stations, INS		
	PP.	many R stations, B		
	SPO 42	Szczecin R, POL		
	UFH	Petropavl.-Km. R, FE, URS		
	UFM 3	Nevelsk R, FE, URS		
	WLO	Mobile R, AL, USA		
	YUR	Rijeka R, YUG		
8811.9		coast stations, ch 831	SSB	QSX 8288.0 kHz
	ASK	Karachi R, PAK		
	DYT 4	Bacolod R, PHL		

8811.9	GKW 41	Portishead R, G
	HEB 38	Berne R, SUI
	J..	many R stations, J
	TAH	Istanbul R, TUR
	TFA	Reykjavik R, ISL
	WOM	Pennsuco R, FL, USA
	Y5M	Rügen R, D
	5RS	Toamasina R, MDG
	9MG 33	Georgetown R, Pin. I., MLA

8815.0 - 8965.0 AERONAUTICAL MOBILE (R)

8816.0		AMS = 4A 6G 12C 13J 14A	SSB
	RXH	Koms.-na-Am. Air, SE, URS	CW
	UGN	Serdtse-Kamen Air, FE, URS	CW
8819.0		AMS = 2B 2C 9B 10 13C	SSB
8822.0		AMS = 2A 3B 5A 5C 11B 13G 14	SSB
8825.0		AMS = NAT, 6G 13H 14F	SSB
8828.0		AMS = 1D 13N, VPAC	SSB
8831.0		AMS = NAT, 6G 13F 14F	SSB
8834.0		AMS = 2B 2C 6C 7C 10 13C	SSB
8837.0		AMS = 3A 3C 4A 9B 10B 13M	SSB
8840.0		AMS = 1C 6	SSB
	COL	Habana Air, CUB	CW
	RFNV	Moscow Air, RU, URS	CW
8843.0		AMS = CEP, 5D 6G 10E 13C 13J 13K 14D	SSB
8846.0		AMS = CAR, 2 3 7F 9	SSB
8849.0		AMS = 13K, VSEA	SSB
8852.0		AMS = 3B 3C 9 12E, VAFI	SSB
8855.0		AMS = SAM, 2 10A 14	SSB
	7OIR	**Riyan Air, YEM**	**0406+0430 ry**
8858.0		AMS = 4A 6G 10D 13E 13F 14D	SSB
8861.0		AMS = SAT, 3A 3B 6E 9B	SSB
8863.5	**'SPK 11'**	**SPK Phnom Penh, CBG**	**0400 E nx**
8864.0		AMS = NAT, 2B 6B 6F 7E 13F	SSB
8867.0		AMS = SP, 6G 10C 13D 13M	SSB
8870.0		AMS = 5 6G 14, VNAT	SSB
8873.0		AMS = 4 6G 9C 9D 12E 12F 13I	SSB
8876.0		AMS = 2A 10A 12D 14G	SSB
8879.0		AMS = INO NAT, 3B	SSB
8882.0		AMS = 2C 6D	SSB
8885.0		AMS = 5 6B 11B 13G 14C	SSB
8888.0		AMS = 2 6G 7	SSB
8891.0		AMS = NAT, 6A 14E	SSB
8894.0		AMS = AFI, 3C 12F 14A	SSB
8897.0		AMS = EA	SSB
8900.0		AMS = 3A 10D 13G 14B	SSB
8903.0		AMS = AFI CWP, 10B 13M	SSB
8906.0		AMS = NAT, 6A 6E 7B 9B 13H	SSB

8909.0		AMS = 2A 6E	SSB
8910.0	**RDM 73**	**Tbilisi Meteo, GE, URS**	**(hx 4455.0 kHz)**
8912.0		AMS = 5B 6G 11B 13D 14C	SSB
8915.0		AMS = 3C 5A	SSB
8916.7		**Egyptian E Amman, JOR**	**SITOR-A: 2125 msg (5lgs) + final ATU-A tfc to Cairo, s. off**
8918.0		AMS = CAR MID, 6C	SSB
8921.0		AMS = W I/III	SSB
8924.0		AMS = W I/IV	SSB
8927.0		AMS = W II/V	SSB
8930.0		AMS = W I/III	SSB
8933.0		AMS = W II/V	SSB
8936.0		AMS = W I/II	SSB
8939.0		AMS = 2A 2C 6F 10B 13C	SSB
8942.0		AMS = SEA, 3A	SSB
8945.0		AMS = 10F 13K 13E, VMID	SSB
8948.0		AMS = 6A 12C	SSB
8950.0		*Novosibirsk M., SW, URS*	*(hx 4475.0 kHz)*
8951.0		AMS = MID	SSB
8954.0		AMS = 3 10E 12J 14B	SSB
8957.0		AMS = 3B 6D 12C 13D 14G, VEUR	SSB
8960.0		AMS = 6G 7F	SSB
	GKX ..	Portishead Air, G	SSB
8964.0	AGA	USAF H. AFB, Hon., HWA	SSB
	CUW	PAF/USAF Lajes AFB, AZR	SSB

8965.0 - 9040.0 AERONAUTICAL MOBILE (OR)

8967.0	AFE 83	USAF Wideawake, ASC	SSB
	AIE	USAF Andersen AFB, GUM	SSB
	AIF 80	USAF Yokota, J	SSB
	CUW	PAF/USAF Lajes AFB, AZR	SSB
8970.0	PBV	DAF Valkenburg, NLD	SSB
8972.0	AFE 70	USAF Cape Can., FL, USA	SSB
		Stockholm Air, S	SSB
8975.5	AXJ	RAAF Pearce, WA, AUS	SSB
8984.0		INTERFLUG Berlin, D	SSB
		many USCG stations	SSB
8988.0	MKL	RAF Edinburgh, G	CW
8989.0	ONY 77	BAF Koksijde, BEL	SSB
		many USAF stations	SSB
8992.5	6WW	FN Dakar, SEN	CW
8993.0		many USAF stations	SSB
		RAF Portland, G	SSB
8994.0	**SOE 349**	**Warsaw Meteo, POL**	**(hx 4997.0 kHz)**
8997.0	NGD	USN McMurdo Sd., ATA	SSB
	NPX	USN South Pole Stn., ATA	SSB
9003.0	JYJ	RJ Amman, JOR	SSB
9006.0	CFH	CF Halifax, NS, CAN	SSB
	CHR	CF Trenton, ONT, CAN	SSB
	CJX	CF St. John's, NFLD, CAN	SSB
	DHM 95	CF Lahr, D	SSB
	VXA	CF Edmonton, ALTA, CAN	SSB
9010.0	CFH	CF Halifax, NS, CAN	SSB
9011.0	AIC	USAF Cl. AFB, Luzon, PHL	SSB
	AJE	USAF Croughton, G	SSB
9017.0	AFI	USAF MC.AFB, S.,CA, USA	SSB

9023.0	AIE	USAF Andersen AFB, GUM	SSB
		many NORAD stations	SSB
9032.0	AXF	RAAF Sydney, NSW, AUS	SSB
	MQP	RAF Upavon, G	SSB
		RAF Wideawake, ASC	SSB
9037.0	MKL	RAF Edinburgh, G	CW

9040.0 - 9500.0 FIXED

9041.0	5YE	Nairobi Meteo, KEN	100 Bd: 1702-0232 ry or wx
9042.0	'98 DDX'	SN Madrid, E	100 Bd: 0416 encrypted msgs
9042.5	'K'	Bcn. Khabarovsk, SE, URS	CW
	'PHWR'	USAF H. AFB, Hon., HWA	75 Bd: 2205 wx
9044.0	GHH	Jamestown Meteo, SHN	0215+0315 ry, wx
9045.0	*5YE*	*Nairobi Meteo, KEN*	*FAX // 7464.5 kHz $*
9046.0	'DFZG'	MFA Belgrade, YUG	75 Bd: 0545+0650 msg (SC press review), 1346 msg (5fgs), 1354 ry
9048.0	HGX 21	MFA Budapest, HNG	0845 ry
9050.0	*NSY*	*USN Catania, I*	*FAX // 4704.0 kHz $*
		Span. E Moscow, RU, URS	SITOR-A: 0916 tfc to EAE 220
9052.0		Kota Baharu, MLA	CW
9056.5	'U'	Bcn. Murmansk, RU, URS	CW
9058.0	9PL	Kinshasa Air, ZAI	1738-0636 ry or msgs [ZDA]
9060.0	*RCU 73*	*Novosibirsk M., SW, URS*	*FAX // 3635.0 kHz $*
9064.0	***WLO***	***Mobile R, AL, USA***	***scheduled***
9070.0	6VU	ASECNA Dakar, SEN	1906-0728 ry or msgs [OLA]
9075.0	VER	CF Ottawa, ONT, CAN	VFT: ARQ-M2 96 Bd: A: 2203 encrypted tfc
	'RFFA'	MOD Paris, F	ARQ-E3 48 Bd: 0500+1730+1956 "controle de voie" to 'RFTJD' [ITF]
		Jakarta, INS	CW
9080.5	FDC 3	FAF Dijon, F	CW
9087.5		Italian E Valetta, MLT	SITOR-A: 0822+1111 tfc to Rome
9090.0	*NPG*	*USN S. Franc., CA, USA*	*FAX // 4855.0 kHz $*
9092.5	9PL	Kinshasa Air, ZAI	VFT: 0235 ry
9098.0	'RPFN'	PN Lisbon, POR	75 Bd: 0306 tfc to 'RPTI', 0315 ry, 0328 clg 'RPTI'
9100.0		*Rst.-na-D. M., RU, URS*	*FAX // 3610.0 kHz $*
9105.0	RCF 44	R Moscow feeder, RU, URS	SSB
	5NL	Lagos Air, NIG	1735-0134 ry or msgs
9109.0	HGG 21	PTT Budapest, HNG	1450 ry
9109.4	HSZ	Bangkok TS, THA	CW
9114.0	HGG 31	MTI Budapest, HNG	1000+1100+1700 E nx
		MFA Riyadh, ARS	SAU-FEC 164 Bd: 2109 ry
9115.0	LRB 91	R Rivadavia feeder, ARG	SSB
9120.6	YMB 20	Bandirma Meteo, TUR	(hx 4560.3 kHz)
9124.0	'HVQ 8'	VNA Hanoi, VTN	75 Bd: 0000+0100+0800-1300 V nx
9125.0	'RFTJD'	FF Douala, CME	ARQ-E3 48 Bd: 0440+2141 "controle de voie" to 'RFFA' [FTI]
9130.0	GYA	RN London, G	75 Bd: 0245+1717+2200+2251 test
9133.0	ZAA 6	ATA Tirana, ALB	0700+0900-1045 E nx
9135.0	*JKB 4*	*JIJI Tokyo, J*	*FAX // 6820.0 kHz*
	MKD	RAF Akrotiri, CYP	VFT: 1720-1040 ryi COMB
9140.0	RCV 26	ANGOP Moscow, RU, URS	1900 F nx, 2000 P nx

9143.0	9MY 58	Kuala Lumpur Meteo, MLA	0000 + 0300 + 0730 + 1330 + 1500 ry, wx
9145.0	RDZ 76	R Moscow feeder, RU, URS	SSB
	RIW	SN Khiva, UZ, URS	CW
9147.0	GXQ	BA London, G	VFT: ARQ-M2 96 Bd: A: 0757-1200 wx with WMO headings B: 0855 tfc (not AFTN); 1205 AFTN msgs [ANM], encrypted tfc, 1222+ 1242 "ch de lin hnm 500" COMB
9150.0	*RCH 73*	*Tashkent Meteo, UZ, URS*	*FAX // 3280.0 kHz $*
	ROW 25	R Moscow feeder, RU, URS	SSB
9153.0	SNN 299	MFA Warsaw, POL	75 Bd: 0550-0716 + 1830 ry or msgs or msg (5fgs)
9157.0	4UN	UNO Jerusalem, ISR	75 Bd: 0515 ry
9157.5	*WLO*	*Mobile R, AL, USA*	*FAX // 6852.0 kHz $*
9159.5	5UA	ASECNA Niamey, NGR	1730-0650 ry or msgs [NIA]
9164.0	9XK	Kigali Air, RRW	1857 msg, 1900 "ch"
9169.3	HBD 20	MFA Berne, SUI	SITOR-A: 0632-1447 tfc + msgs
	HBD 54	Swiss E Rome, I	SITOR-A: 1305 msgs + tfc to HBD 20
9173.0	CUW	PAF/USAF Lajes AFB, AZR	VFT: 75 Bd: 0248 + 2030 + 2157 foxes COMB
9173.4	*WLO*	*Mobile R, AL, USA*	*scheduled*
9177.0	FDY	FAF Orleans, F	CW
9177.2	FDY	FAF Orleans, F	1113 + 1448 ry
9180.0	RDH 45	R Moscow feeder, RU, URS	SSB
9187.5	5UA	ASECNA Niamey, NGR	0037 + 0428 + 0500 + 2148 ry
9190.0	RDZ 75	Moscow Meteo, RU, URS	0000-1800 ry or wx
9193.0	BAA 23	Beijing Meteo, CHN	1245-2232 wx
9195.0	3BZ	Plaisance Air, MAU	ARQ-E 72 Bd: 0417 idling
9196.0	9HY 9	DW Cyclops, MLT	0635 ry
9197.5	A9M 41	GNA Manama, BHR	75 Bd: 0500-1500 A nx
9200.0	NDT	USN Yokosuka, J	COMB
	ROP 59	R Moscow feeder, RU, URS	ISB
9203.0	*GFE 22*	*Bracknell Meteo, G*	*FAX // 2618.5 kHz $*
9210.0	RME 20	R Moscow feeder, RU, URS	ISB
9211.0	HBT 29	Berne Air, SUI	SSB
9211.5	STK	Khartoum Air, SDN	0122 ry
9217.0	TTL	ASECNA N'djamena, TCD	2105 ry
9220.0	*RTB 26*	*Novosibirsk M., SW, URS*	*FAX // 5765.0 kHz $*
9224.5	'RPFR'	PAF Lajes AFB, AZR	SITOR-A: 1530 msg, 1719 tfc
9225.0	'RPFN'	PN Lisbon, POR	75 Bd: 1522 + 2125 ry
9226.0	TJK	ASECNA Douala, CME	1735-0553 ry
9228.0	5AH	Benina Air, LBY	SSB
	9HA	Luqa Air, MLT	SSB
9230.0	*RXO 70*	*Khabarovsk Met., SE, URS*	*FAX // 4516.7 kHz $*
9231.0	STK	Khartoum Air, SDN	2212 ry
9232.2	ETD 3	Addis Ababa Air, ETH	0152 + 1913 + 2040 ry, 2213 msgs [VJA]
9236.3	EAE 220	MFA Madrid, E	SITOR-A: 0818 tfc
9237.5	AJE	USAF Croughton, G	VFT: 75 Bd: 24 h wx
9240.0	RVO 77	R Moscow feeder, RU, URS	SSB
9242.0	*LRO 64*	*DyN Buenos Aires, ARG*	*FAX // 8167.0 kHz*
9242.2	AJE	USAF Croughton, G	COMB
9250.0	RZT 73	R Moscow feeder, RU, URS	SSB
9252.2	ELRB	Monrovia Air, LBR	1306-0740 ry or msg [LOA]
9255.5	'SPK 72'	SPK Phnom Penh, CBG	1000 + 1100 E nx, 1200 + 1400 + 1900 F nx

9260.0	*JKA 3*	*JIJI Tokyo, J*	*FAX // 6820.0 kHz*
9265.0	**ZRH**	**SAN Cape Town, AFS**	**75 Bd: 0006+0016 clg NMN, 0035 AMVER msgs to NMN, 0049+0100 ry**
9278.0	**OMZ**	**MFA Prague, TCH**	**75 Bd: 0725+0815 msg, 0925 ry**
9280.0	**RUZU**	**SAAM Molodezhnaya, ATA**	**1511-0326 ry or wx or clg ULV**
9285.0	**TNL**	**ASECNA Brazzaville, COG**	**0451 msg, 2326 ry [FGA]** **ARQ-M2 96 Bd: A: 1717-0540 msgs or "ch" [FGA] or wx with WMO headings** **B: 0503+0528-0539+1722+1848 msgs [FGA]**
9287.3	**TLO**	**ASECNA Bangui, CAF**	**2133-0453 ry or msg**
9290.0	**RTQ 78**	**Sverdlovsk Met., SW, URS**	**24 h ry or wx**
9295.0	FDY	FAF Orleans, F	CW
9298.0	**SOJ 229**	**PAP Warsaw, POL**	**0600 E nx**
9311.0	RGZ 4	Omsk, SW, URS	CW
9313.5	'U'	Bcn. Murmansk, RU, URS	CW
9317.0	FDX	FAF Paris, F	CW
9318.0	**DHJ 51**	**Grengel Meteo, D**	**100 Bd: 24 h ry or wx**
9322.0	'X'	Beacon Prague, TCH	CW
9323.5	**'RPTI'**	**PN Ponta Delgada, AZR**	**75 Bd: 0313 ry**
9324.0	*BZZ 28*	*XINHUA Beijing, CHN*	*FAX // 5815.0 kHz*
9330.0	**XVN 26**	**VNA Hanoi, VTN**	**1400+1500 E nx, 1600 F nx**
9333.5		**Italian E Prague, TCH**	**SITOR-A: 0816 msgs to Rome**
9334.3	AJE	USAF Croughton, G	SSB
9337.0	**'RFFX'**	**FF Versailles, F**	**ARQ-E 72 Bd: 0610 encrypted msgs after "KKKK..." to 'RFFXL' [XXL]**
9340.0	*RCH 72*	*Tashkent Meteo, UZ, URS*	*FAX // 3690.0 kHz $*
9341.0	**FDY**	**FAF Orleans, F**	**0153+0725-1526 ry**
9341.3	**EAE 220**	**MFA Madrid, E**	**SITOR-A: 0809 tfc**
9342.0	**HGX 21**	**MFA Budapest, HNG**	**DUP-ARQ: 0518 tfc to HGX 36**
	HGX 36	**Hungar. E Bangkok, THA**	**DUP-ARQ: 0518 msg to HGX 21**
9347.5	**STK**	**Khartoum Air, SDN**	**1408-0142 ry or msgs [SKA]**
9350.0	RVU 75	R Moscow feeder, RU, URS	ISB
9355.0	*RNR 4*	*Magadan Meteo, FE, URS*	*FAX // 5755.0 kHz*
		Marka, SOM	CW/SSB
		Muqdisho, SOM	CW/SSB
9360.0	*OXT*	*Copenhagen Meteo, DNK*	*FAX // 5850.0 kHz $*
9367.0	FDY	FAF Orleans, F	CW
9375.0	RIT	SN Vaygach, RU, URS	CW
9378.5	**3BZ**	**Plaisance Air, MAU**	**ARQ-E 72 Bd: 0800 "ch" [PTA]**
9380.0	**MKK**	**RAF London, G**	**VFT: 0943 ryi** COMB
9382.5	*AOK*	*USN Rota, E*	*FAX // 4704.0 kHz $*
9385.5	**ZSC**	**PTT Cape Town, AFS**	**AUTOSPEC 68 Bd: 1801 clg ZRS, 1812 test**
9388.0	**ZAO 3**	**PTT Tirana, ALB**	**1132+1600+1617 to Beijing**
	'DFZG'	**MFA Belgrade, YUG**	**FEC-A 144 Bd: 1116 encrypted msgs after "HBHBHB..."**
9391.0	**SOJ 239**	**PAP Warsaw, POL**	**0700 F nx, 1800+2000 E nx**
9395.0	**HMF 84**	**KCNA Pyongyang, KRE**	**1230 R nx wca, 1500+1600 E nx, 1800-2100+2130-2400 F nx**
9398.0	*NPM*	*USN Pearl Harbour, HWA*	*FAX // 4855.0 kHz $*
9402.5	**OST**	**Oostende R, BEL**	**SITOR-A: 24 h tts; QSX 8395.5 kHz** CW
9410.5	*JKE 6*	*JIJI Tokyo, J*	*FAX // 6820.0 kHz*
9419.0	CUA 48	CPRM Lisbon, POR	CW

9430.0	**ZAT**	**ATA Tirana, ALB**	**0800-1045 F nx, 1100 + 1500 + 1700-1845 E nx**
	3MA 34	*CNA Taipei, TAI*	*FAX // 5117.0 kHz* CW
9438.0	*JMJ 3*	*Tokyo Meteo, J*	*FAX // 3365.0 kHz $*
9439.7		*KCNA Pyongyang, KRE*	*FAX // 7363.7 kHz*
9443.0	**7UG 44**	**PTT El Djaza'ir, ALG**	**1510 ry**
9446.0	**5HD**	**Dar es Salaam Air, TZA**	**1252 ry**
9459.0	*ZKLF*	*Auckland Meteo, NZL*	*FAX // 5807.0 kHz $* CW
9463.0	**JYF 4**	**PETRA Amman, JOR**	**0400 A nx, 0800-0900 E nx, 0900 + 1000 + 1400 + 1500 A nx, 1700 E nx**
9476.0	RCV	SN Moscow, RU, URS	CW
9485.0	NPO	USN Subic Bay, PHL	CW
9499.5		Prapat, INS	SSB

9500.0 - 9900.0 BROADCASTING <530 531>

9797.0	**YOJ 27**	**ROMPRES Bucharest, ROU**	**0900 E nx, 1000 F nx**
9829.0	FDG 2	FAF Mont-de-Marsan, F	CW (hx 4914.5 kHz)
	'SPK 10'	**SPK Phnom Penh, CBG**	**0700 E nx, 0800 F nx, 0900 E nx, 1000 F nx**
9846.0	**TUH**	**ASECNA Abidjan, CTI**	**1811-0930 ry or msgs [ILA]**
9873.5	**ETD 3**	**Addis Ababa Air, ETH**	**0752 msgs, 2102 ry**
9875.0	*AOK*	*USN Rota, E*	*FAX // 4704.0 kHz $*

9900.0 - 9995.0 FIXED

9909.0	**S7Z**	**Victoria Air, Mahe, SEY**	**1445 ry**
9927.5	*RXA 76*	*Alma Ata Meteo, KA, URS*	*FAX 90/576: 0300 chart Antarctic, 0730 chart*
9945.0	7CB	IN Belawan, INS	CW
9960.0	NPO	USN Subic Bay, PHL	COMB
9965.0	**7OB 45**	**ANA Aden, YEM**	**1630-1730 A nx, 1800 E nx**
9967.0	**MKD**	**RAF Akrotiri, CYP**	**VFT: 0800 ryi**
9970.0	FDC	FAF Metz, F	CW
	JMH 3	*Tokyo Meteo, J*	*FAX // 3622.5 kHz $*
	3BZ	**Plaisance Air, MAU**	**0718 + 0841 msgs**
9974.0	**TAD**	**MFA Ankara, TUR**	**FEC-A 144 Bd: 1520 msg**
9980.5	**'RFFA'**	**MOD Paris, F**	**ARQ-M2 96 Bd: A: 0634 + 1648 + 1800 msg to 'RFVI'**
9982.5	*KVM 70*	*Honolulu Meteo, HWA*	*FAX $*
9992.0	**TAD**	**MFA Ankara, TUR**	**FEC-A 144 Bd: 1630 msgs**
9994.0	**CSY**	**Santa Maria Air, AZR**	**24 h ry or msgs [MCA]**

9995.0 - 10003.0 STANDARD FREQUENCY AND TIME SIGNAL <501>

9996.0	RWM	Moscow TS, RU, URS	CW
10000.0	ATA	Delhi TS, IND	SSB
	BPM	Xi'an TS, CHN	CW/SSB
	JJY	Tokyo TS, J	COMB
	LOL 2	AN Buenos Aires TS, ARG	CW/SSB
	RCH	Tashkent TS, UZ, URS	CW
	RTA	Novosibirsk TS, SW, URS	CW
	WWV	Fort Collins TS, CO, USA	COMB
	WWVH	Kihei TS, Maui Island, HWA	COMB

10003.0 - 10005.0 STANDARD FREQUENCY AND TIME SIGNAL + Space Research <501>

10003.0	WORLDWIDE	MSV SAR OPERATIONS FREQ.	SSB
10004.0	RID	Irkutsk TS, SE, URS	CW

10005.0 - 10100.0 AERONAUTICAL MOBILE (R) <501>

10006.0		AMS = 6A 10 13G	SSB
	TAD	**MFA Ankara, TUR**	**FEC-A 144 Bd: 1357-1426 msgs, 1605 tfc to Tirana**
10009.0		AMS = 2B 2C 7B 9B 13K	SSB
10012.0		AMS = 5 10 13J	SSB
10015.0		AMS = 2 6C 12D	SSB
10018.0		AMS = MID, 6G 9 13J 13K	SSB
10021.0		AMS = 1 6B 12C 13G	SSB
10024.0		AMS = SAM, 2B 2C 3B 9B	SSB
10027.0		AMS = W I/II	SSB
10030.0		AMS = W I/IV	SSB
10033.0		AMS = W II/V	SSB
10036.0		AMS = 1E 6E 13G 13H	SSB
10039.0		AMS = 3B 3C 4A 9B 12C	SSB
10042.0		AMS = EA, 9C 10F 13C 13J 13K	SSB
10045.0		AMS = 2 3A 11B 13H 14	SSB
10046.0	4XZ	IN Haifa, ISR	CW
10048.0		AMS = NP, 2A 5D 13A 13B	SSB
10051.0		AMS = 6A 6E 13I, VNAT	SSB
10054.0		AMS = 2A 2C 6G 12	SSB
10057.0		AMS = CEP, 3A, VAFI	SSB
10060.0		AMS = 1D 6F 13K	SSB
10063.0		AMS = 4B 6G 12E	SSB
10066.0		AMS = SEA, 1B 10A 13M	SSB
10069.0		AMS = W I/IV	SSB
10072.0		AMS = W I/III	SSB
10075.0		AMS = W II/V	SSB
10078.0		AMS = W I/III	SSB
10081.0		AMS = CWP,	SSB
		4A 6A 7C 13F	SSB
10084.0		AMS = EUR SP, 6E 13D	SSB
10087.0		AMS = 3 14, VSAM	SSB
10090.0		AMS = 12E 12F, VNCA	SSB
10093.0		AMS = 5B 6B 11B 13N	SSB
10096.0		AMS = NCA SAM, 7D	SSB

10100.0 - 10150.0 FIXED + Amateur <510>

10100.0	**RUZU**	**SAAM Molodezhnaya, ATA**	**2245 msg**
	3BT	Vacoas Meteo, MAU	SSB
10105.0	**RKA 79**	**TASS Moscow, RU, URS**	**0415-0545 E nx, 0700 F nx, 1100+1200 A nx**
10114.0		**KPL Vientiane, LAO**	**0800+0900 E nx**
10117.0	*BAF 4*	*Beijing Meteo, CHN*	*FAX // 5527.0 kHz $*
10120.0	**RGI 24**	**TASS Moscow, RU, URS**	**0700-1645 F nx**
	'RFFX'	**FF Versailles, F**	**ARQ-E 72 Bd: 0406 msg to 'RFFXL' [XXL]**
10122.5	**'VECC'**	**Calcutta Air, IND**	**0719 msgs, 1014-1648 ry**

10123.0	*SUU*	*Cairo Meteo, EGY*	*FAX // 4526.0 kHz $*
10127.4	DFK 25L1	DW Cologne, D	1049 s. on with ry
10130.0	*RBW 48*	*Murmansk Met., RU, URS*	*FAX $*
10132.0	TNL	ASECNA Brazzaville, COG	0410 msgs, 1740 "ch", msgs
10135.0	NPO	USN Subic Bay, PHL	COMB
10136.0		Polish E Sofia, BUL	75 Bd: 0803 msgs to SNN 299
10138.0	ZHH 46	C+W Jamestown, SHN	SSB
10142.0	*RUZU*	*SAAM Molodezhnaya, ATA*	*FAX 120/576: 0100+1200+ 1300 chart Antarctic*
10146.0	XVZ	Ho Chi Minh V. Air, VTN	24 h ry or msgs

10150.0 - 11175.0 FIXED + Mobile except aeronautical mobile (R)

10150.0	SUA 246	MENA Cairo, EGY	0200+0600-2400 A nx
10154.0	RJS	SN Vladivostok, SE, URS	CW
10156.5		MFA Rome, I	SITOR-A: 0756 tfc to Athens; QSX 10209.5 kHz
10162.5	YIL 71	INA Baghdad, IRQ	1300-2000 A nx
10165.0	RPT 31	TASS Moscow, RU, URS	1700+1900 F nx
10165.8	SAM	MFA Stockholm, S	SITOR-B: 0923 msg (Swedish nx)
10167.0	*BAF*	*Beijing Meteo, CHN*	*FAX // 3170.0 kHz*
10169.0	HSW 63	Bangkok Meteo, THA	24 h wx
	'RFTJD'	FF Douala, CME	ARQ-E 72 Bd: 0145-0500+1730 "controle de voie" to 'RFFA' [JDA]
10176.0	'RFFA'	MOD Paris, F	ARQ-M2 96 Bd: A: 0717+0719 "controle de cle" to 'RFLI', 0910 msgs to 'RFLI' [LFB] B: 0910+0923 msgs to 'RFLI' [LSB]
10177.0		Polish E Stockholm, S	75 Bd: 1450 msg + tfc + msg (5fgs) to SNN 299
10200.0	JAE 50	JIJI Tokyo, J	1000+1100+1200 S nx
	MKK	RAF London, G	VFT: 24 h ryi COMB
10205.0	RTP 78	Irkutsk Meteo, SE, URS	0112 wx
10207.0	*RTP 78*	*Irkutsk Meteo, SE, URS*	*FAX // 5280.0 kHz*
10209.5		Italian E Athens, GRC	SITOR-A: 0756 msgs (5lgs) to Rome; QSX 10156.5 kHz
10213.0	CNM 29	MAP Rabat, MRC	1000-1130 F nx, 1200-1400 E nx, 1530-1700 F nx
10214.0	EPD	Tehran Air, IRN	1647-2255 ry or msg
10214.5	'U'	Bcn. Murmansk, RU, URS	CW
10215.0	HZN 48	Jeddah Meteo, ARS	100 Bd: 24 h ry or wx
10217.5	9VF 59	PIAB Singapore, SNG	FEC-A 96 Bd: 1400-1800 G nx
10220.0	CML 28	PTT Habana, CUB	1347-0251 ry or to ITT New York [HVA]
	MKD	RAF Akrotiri, CYP	VFT: 1828-0907 ryi COMB
	RDW 76	*Khabarovsk Met., SE, URS*	*FAX // 3250.0 kHz*
10230.0	*RKA 78*	*Moscow Meteo, RU, URS*	*FAX // 53.6 kHz $*
10233.0		VoA Greenville, NC, USA	VFT: 75 Bd: 2200-0300 E nx, 0300+0400 A nx
10234.3		VoA Greenville, NC, USA	// 10233.0 kHz
10235.0	RWG 57	R Moscow feeder, RU, URS	SSB
		VoA Greenvl. fdr., NC, USA	SSB
10235.8		VoA Greenville, NC, USA	// 10233.0 kHz
10237.2		VoA Greenville, NC, USA	// 10233.0 kHz
10240.0	UHF 3	Moscow, RU, URS	0619 ry

10245.0	**SOK 244**	**PAP Warsaw, POL**	**1700 E nx**
10250.0	NDT	USN Yokosuka, J	COMB
		Madrid Meteo, E	*FAX // 3650.0 kHz $*
10253.0	*NPN*	*USN Apra Harbour, GUM*	*FAX // 5258.0 kHz $*
10255.0	KWS 78	USE Athens, GRC	CW
10257.0	*NPN*	*USN Apra Harbour, GUM*	*FAX // 5262.0 kHz $*
10258.0	**RDZ 71**	**TASS Moscow, RU, URS**	**1700 + 1800 + 1900 A nx**
10270.0	**RKA 25**	**TASS Moscow, RU, URS**	**1300-2300 E nx**
10271.0		Tanjung Pinang, INS	SSB
10275.0	RYM	IAG Moscow, RU, URS	SSB
10276.0	**PBC 5**	**DN Goeree Island, NLD**	**75 Bd: 0750 ry**
10278.8	**YZA 9**	**TANJUG Belgrade, YUG**	**1700 + 1800 F nx**
10280.0	**MKK**	**RAF London, G**	**VFT: 0824-2127 ryi** COMB
10288.6		**UNID station (1090)**	**ARQ-E 192 Bd: 0446 encrypted tfc**
10291.0	PKX ..	Portishead Air, G	SSB
10295.0	**FSB 71**	**INTERPOL Paris, F**	**SITOR-A: 0938-2150 encrypted tfc or msgs** CW
10296.0	*HZN*	*Jeddah Meteo, ARS*	*FAX // 3560.0 kHz $*
10299.0	**HSW 62**	**Bangkok Meteo, THA**	**24 h wx**
10300.0	*RVO 73*	*Moscow Meteo, RU, URS*	*(hx 5150.0 kHz)*
10308.0	**FDY**	**FAF Orleans, F**	**0737 + 1621-2250 ry**
10320.0	**BAA 8**	**Beijing Meteo, CHN**	**2340-1018 ry or wx**
10325.0	**HGX 21**	**MFA Budapest, HNG**	**0711 tfc, ry**
10330.0	RKA 76	R Moscow feeder, RU, URS	SSB
10337.0	**JTD 29**	**MONTSAME Ulan B., MNG**	**1600 + 1700 E nx**
10340.0	**ULV**	**SA/AAMC Mosc., RU, URS**	**1700 clg UPV**
10344.0		R Moscow feeder, RU, URS	SSB
10346.0	**GYU**	**RN Gibraltar, GIB**	**VFT: ARQ-M2 96 Bd: A: 1048 + 1747 + 1945 + 2151 encrypted tfc** COMB
10373.0	7OW 93	Aden, YEM	CW
10380.0	**RBW 43**	**SAM Murmansk, RU, URS**	**0550 + 0708 + 0815 + 1015 R msgs wtsca** CW
10380.8		**VoA Greenville, NC, USA**	**VFT: 75 Bd: 0800 + 0200 + 1000 + 1100 E nx**
10382.2		**VoA Greenville, NC, USA**	**// 10380.8 kHz**
10384.2	**5YE**	**Nairobi Meteo, KEN**	**1957 + 2120 wx**
10390.0	**FSB 57**	**INTERPOL Paris, F**	**SITOR-A: 24 h encrypted tfc + msgs** CW
	JBF 40	KDD Tokyo, J	SSB
10391.0	**5NL**	**Lagos Air, NIG**	**1945-0447 ry**
10398.0	**HGX 21**	**MFA Budapest, HNG**	**0854 clg + tfc to HGX 36, 1452 tfc, 1645 clg HGX 41**
10401.2	**HGX 21**	**MFA Budapest, HNG**	**DUP-ARQ: 0841 tfc to various embassies, 1350 msgs + msgs (5fgs) to HGX 29**
	HGX 29	**Hungarian E Paris, F**	**DUP-ARQ: 1350 tfc to HGX 21**
10408.0	**9VF 63**	**ANSA Singapore, SNG**	**1700 E nx**
10412.0	**'RFFXL'**	**FF Beirut, LBN**	**ARQ-E 72 Bd: 0318 + 0448 msg to 'RFFX' [XZL]**
10415.0	JJD	RRL Tokyo, J	CW
	SNN 299	**MFA Warsaw, POL**	**75 Bd: 0600 ry, 0700 msg (Polish/E nx)**
10419.5	FDY	FAF Orleans, F	CW

10420.0		RFE Holzkirchen feeder, D	ISB
10424.0	YMA 20	Ankara Meteo, TUR	24 h ry or wx
10430.0	YBF 2	Medan, INS	0139 msgs
10432.0	HXP	Saint Denis Meteo, REU	SSB
10435.0	ZAY	ATA Tirana, ALB	1400 + 1500 F nx
10438.0	RIW	SN Khiva, UZ, URS	CW
10451.5	STK	Khartoum Air, SDN	0108 + 0513 ry
10454.0		VoA Greenvl. fdr., NC, USA	ISB
10461.0	4UZ	UNO Geneva, SUI	VFT: 75 Bd: 24 h ry or msgs
10464.0	KWL 90	USE Manila, PHL	CW
10465.0	RKA 74	APN Moscow, RU, URS	100 Bd: 0700 + 0800 + 1000 R nx wtsca
10467.7	'RFPTC'	FF N'djamena, TCD	ARQ-M2 200 Bd: A: 2236 msg + tfc to 'RFFA'
10470.0	BLM 23	Chengdu Meteo, CHN	0049-0933 wx
10478.5		Batam Island, INS	SSB
10492.0	'RFTJF'	FF Port Bouet, CTI	ARQ-M2 96 Bd: A: 0120 msg [JFJ] B: 1810 msg
10495.0	MKD	RAF Akrotiri, CYP	VFT: 24 h ryi COMB
10509.5	6OM	Muqdisho Air, SOM	1813-0435 ry
10518.0		JANA Tripoli, LBY	1400 + 1500 + 1700 + 1800 A nx
10520.0		*Murmansk Meteo, RU, URS*	*FAX $*
10524.0	HMF 45	KCNA Pyongyang, KRE	1145-1445 F nx
10536.0	CFH	CF Halifax, NS, CAN	75 Bd: 24 h ry or wx *FAX // 122.5 kHz $*
10537.8	AJE	USAF Croughton, G	COMB
10540.2	CSY	Santa Maria Air, AZR	0359 + 1106 + 2105 ry
10547.0	FDY	FAF Orleans, F	CW
10547.5		MFA Rome, I	SITOR-A: 1334 msg (5lgs)
10551.3	GFL 23	Bracknell Meteo, G	24 h wx
10555.0	*AXI 34*	*Darwin Meteo, NT, AUS*	*FAX // 5755.0 kHz $*
10570.0	RWH 79	Alma Ata Meteo, KA, URS	0253-1254 wx
10575.0	SKJ 25	Stockholm Air, S	SSB
10580.0	HMF 46	KCNA Pyongyang, KRE	1000-1100 + 1500-1700 E nx
10586.0	MKD	RAF Akrotiri, CYP	VFT: 24 h ryi COMB
10595.0	RKD 48	R Moscow feeder, RU, URS	SSB
10600.0	XVN 37	VNA Hanoi, VTN	1400-1800 E nx, 1800 F nx
10602.5		NAN Lagos, NIG	100 Bd: 1500-1900 E nx
10610.0	SUA 251	MENA Cairo, EGY	1700 E nx, 1800 + 2100 F nx, 2200 + 2300 E nx
10612.8	S2D	Dhaka Air, BGD	1718 + 1938 msg, 2315 ry [DBA]
10620.0	RWC 62	R Moscow feeder, RU, URS	SSB
10633.0	SUC	Cairo Air, EGY	24 h ry or msgs [ESA]
10634.1	CNM 37.9X	MAP Rabat, MRC	1000-1130 + 1530-1700 F nx
10637.0	KKN 50	MFA Washington, DC, USA	CW
10638.0	TAD	MFA Ankara, TUR	FEC-A 144 Bd: 1530 msgs
10638.7	'RFQP'	FF Jibuti, DJI	ARQ-M2 200 Bd: A: 0511 + 0526 + 1920 "controle de voie" [QRG]
10643.5	'D'	Beacon Odessa, UK, URS	CW
	'S'	Bcn. Arkhangelsk, RU, URS	CW
10644.0	'C'	Beacon Moscow, RU, URS	CW
10644.2	'P'	Bcn. Kaliningrad, RU, URS	CW
10645.0	'F'	Bcn. Vladivostok, SE, URS	CW
10646.0	'O'	Beacon Moscow, RU, URS	CW
10646.7	'Z'	Bcn. Mukachevo, UK, URS	CW

10646.8	'L'	Bcn. Leningrad, RU, URS	CW
10649.0	**TAD**	**MFA Ankara, TUR**	**FEC-A 144 Bd: 1830 msgs**
10650.0	**BJZ 23**	**Wuhan Meteo, CHN**	**0006-1006 wx**
10653.0	**SNN 299**	**MFA Warsaw, POL**	**100 Bd: 0952 msgs to Paris**
10654.0	**MKK**	**RAF London, G**	**VFT: 24 h ryi** COMB
10654.3	**HSD**	**Bangkok Air, THA**	**24 h msgs [BDA]**
10665.0	*RCQ 73*	*Yakutsk Meteo, SE, URS*	*FAX 90/576: 0100-0815 charts*
	'RFTJDA'	**FF Libreville, GAB**	**ARQ-E 72 Bd: 0315+1843 msg to 'RFTJD' [DAD]**
10670.0	**RDM 78**	**Tbilisi Meteo, GE, URS**	**(hx 5335.0 kHz)**
	RZA 26	R Moscow feeder, RU, URS	SSB
10677.0	*LRN 2*	*AP Buenos Aires, ARG*	*FAX // 5777.5 kHz*
10680.5	**'RFFXI'**	**FF Bangui, CAF**	**ARQ-E 72 Bd: 0505 msg to 'RFFX' [XXI]**
10690.0	RIW	SN Khiva, UZ, URS	CW
	RKM 22	R Moscow feeder, RU, URS	SSB
10694.0	SOK 269	PAP Warsaw, POL	CW
10710.0	**JAG 30**	**PL Tokyo, J**	**1100+1200+1730 S nx**
	RKA 73	*Moscow Meteo, RU, URS*	*FAX // 2815.0 kHz $*
10720.0	*LRB 72*	*Buenos Aires Meteo, ARG*	*FAX // 5185.0 kHz $*
10722.0	**'RPTI'**	**PN Ponta Delgada, AZR**	**75 Bd: 1040 ry**
10726.0	**'P6Z'**	**MFA Paris, F**	**75 Bd: 0900 ry**
10740.0	RKA 72	R Moscow feeder, RU, URS	SSB
10754.1	**HVH**	**PTT Vatican City, CVA**	**ARQ-M2-242 96 Bd: B: 1619 to CUA 67 [VAP]**
10762.8	**HMY 56**	**PTT Pyongyang, KRE**	**1250-2029 ry or to Y2J or Y3D 5**
10764.0		**French E Manila, PHL**	**ARQ-E 72 Bd: 1049 msg to Delhi**
10770.0	RTT 42	R Moscow feeder, RU, URS	SSB
10779.0	**ETD 3**	**Addis Ababa Air, ETH**	**1803 ry**
10780.0	AFE 70	USAF Cape Can., FL, USA	SSB
	AFE 83	USAF Wideawake, ASC	SSB
	AFE 86	USAF Cedar Grove, ATG	SSB
	SDN 6	**ST Stockholm, S**	**ARQ-M2 96 Bd: A: 2006+2025 to Ho Chi Minh Ville [SHO]** **B: 1014+1755 to Ho Chi Minh Ville [SHO]**
10787.0	RIT	SN Vaygach, RU, URS	CW
10790.0	**RKA 71**	**TASS Moscow, RU, URS**	**1600+1700+2100 E nx**
10795.0	**JAG 50**	**KYODO Tokyo, J**	**0250-0320+0440-0600+0610-0630 E nx**
10800.0	**'RFLI'**	**FF Fort de France, MRT**	**ARQ-E3 48 Bd: 0108+0125+0450+0531+0631+1445 "controle de voie" or msgs [IRT]**
10802.0	**'DFZG'**	**MFA Belgrade, YUG**	**FEC-A 144 Bd: 0630 msg to Bonn, 0755 msgs, 1036 encrypted msg, final tfc, s. off**
10805.0		**NA Buenos Aires, ARG**	**75 Bd: 0900+1000+1200+2000-0300 S nx**
10814.2	**'RFQP'**	**FF Jibuti, DJI**	**ARQ-M2 200 Bd: A: 0126+0608-2045 msgs or encrypted tfc after "KKKK..." or "controle de voie" or svc msg to 'RFFA' [QPA, QPB]** **B: 0605-2045 msgs or air msgs or encrypted tfc after "KKKK..." or "controle de voie" to 'RFFA' [QPA,QPB]**
10819.5	UHF 3	Moscow, RU, URS	CW
10830.0	*RUZU*	*SAAM Molodezhnaya, ATA*	*FAX // 10142.0 kHz*

10830.0	**ULV**	**SA/AAMC Moscow, RU, URS**	**0612-1225 clg UKS or R msgs wtsca**
10841.0	**MUA**	**BA London, G**	**ARQ-M2 96 Bd: A: 0950 encrypted tfc**
10842.0		**Banda Aceh, INS**	**SSB**
10855.0		**R Moscow feeder, RU, URS**	**SSB**
10858.0	**'RFFX'**	**FF Versailles, F**	**ARQ-E 72 Bd: 0456 msg to 'RFFXI' [XXI]**
10859.0	**YAD 4**	**PTT Kabul, AFG**	**0335-0640 + 1152-1430 ry or to ATS 61**
10860.0		**RFE Holzkirchen feeder, D**	**ISB**
10865.0	*NAM*	*USN Norfolk, VA, USA*	*FAX // 3357.0 kHz $*
	RZA 24	**APN Moscow, RU, URS**	**100 Bd: 0700-1200 R nx wtsca**
	RZA 24	**TASS Moscow, RU, URS**	**1700 E nx**
10867.5	**'RFVI'**	**FF Le Port, REU**	**ARQ-M2 96 Bd: A: 1557-1625 msgs to 'RFQP', 1741 + 1820 "controle de voie" to 'RFQP' [RUN]**
10869.0		**VoA Bethany fdr., OH, USA**	**ISB**
10873.7	**'RFVI'**	**FF Le Port, REU**	**ARQ-M2 96 Bd: B: 0349 + 0520 msgs to 'RFFA' [REI]**
10886.0		**VoA Tanger, MRC**	**(sp 10972.0 kHz)**
10890.0	**GXQ**	**BA London, G**	**VFT: 24 h ryi** **COMB**
10893.5	**LRB 39**	**TELAM Buenos Aires, ARG**	**0900 + 1900-0100 S nx**
10899.5		**MFA Jakarta, INS**	**0726 ry, 1313 msgs**
10905.0	**BBA 45**	**PTT Shanghai, CHN**	**1136 ry**
10911.0	**HGH 29**	**MTI Budapest, HNG**	**1615 F nx**
10912.0		**Mataram, INS**	**SSB**
10916.0	**'RFTJ'**	**FF Dakar, SEN**	**ARQ-M2 96 Bd: B: 1643 msg to 'RFTJF', 2258 "controle de voie" to 'RFTJF'**
10922.0	**DFK 92**	**DW Cologne feeder, D**	**SSB**
10937.0	**LZU 2**	**Sofia Meteo, BUL**	**(sp 11063.0 kHz)**
10945.0	**CFH**	**CF Halifax, NS, CAN**	**CW**
10950.2	**'RFFA'**	**MOD Paris, F**	**ARQ-M2 200 Bd: A: 1135 + 1153 msg to 'RFQP' [PQB]** **B: 1138 encrypted tfc after "KKKK..." to 'RFQP' [PQB]**
10955.0	**RBI 75**	**R Moscow feeder, RU, URS**	**SSB**
10956.2	**HBD 20**	**MFA Berne, SUI**	**SITOR-A: 1000 msg (F/G nx)**
10960.0	**3MA 28**	**CNA Taipei, TAI**	**0230-0330 + 0930-1030 + 1330-1500 E nx**
10964.0	*NPO*	*USN Subic Bay, PHL*	*FAX // 5258.0 kHz $*
10965.0	**JYN 41**	**Amman Meteo, JOR**	**0615 + 0915 + 1215 + 1415 + 1515 wx**
10968.0	**HBD 20**	**MFA Berne, SUI**	**SITOR-A: 1127 tfc; 1445 tfc to HBD 38**
	HBD 38	**Swiss E Oslo, NOR**	**SITOR-A: 1445 msgs to HBD 20**
10972.0		**VoA Tanger, MRC**	**75 Bd: 2200-0600 E nx**
10973.5	**HBD 20**	**MFA Berne, SUI**	**SITOR-A: 0815 msg (5lgs) + final tfc to HBD 90, 1338 tfc**
	HBD 90	**UNID Swiss diplomatic station (990)**	**SITOR-A: 0815 final tfc to HBD 20, s. off**
10980.0	*RDD 79*	*Moscow Meteo, RU, URS*	*FAX // 2815.0 kHz $*
	'RPTI'	**PN Ponta Delgada, AZR**	**0330 ry**
10982.0	**BAP 40**	**XINHUA Beijing, CHN**	**0600 + 0700 + 0800 E nx**
10990.0		**SABS Riyadh feeder, ARS**	**ISB**
11000.0	**RIW**	**SN Khiva, UZ, URS**	**CW**
11005.7	**7OC**	**Khormaksar Air, YEM**	**0150 ry, 0645 msg**

11007.0	9VF 67	PIAB Singapore, SNG	FEC-A 96 Bd: 1400-1800 G nx
11010.0	GYA	RN London, G	75 Bd: 1840-0347 test
11013.0		DyN Buenos Aires, ARG	75 Bd: 1500+2000-0400 S nx
11014.0	SUU	Cairo Meteo, EGY	1917-0554 wx
11016.4	GXQ	BA London, G	VFT: 0710 ryi
11020.0	RCB 52	R Moscow feeder, RU, URS	SSB
11025.0	UHO 2	Yuzhno-S. Meteo, FE, URS	CW
11027.5	9PL	Kinshasa Air, ZAI	24 h ry or msgs [ZLA]
11030.0	AXM 34	Canberra Meteo, ACT, AUS	0902 ry, 1635 test (wx) *FAX // 2628.0 kHz $*
	DFL 21	DW Cologne feeder, D	SSB
11035.0	UKS	SAM Barentsburg, Spitsbergen, NOR	0654-1552+2146 clg ULV CW
11039.0	DDH 9	Hamburg Meteo, D	CW
11045.0	C8E 231	Beira, MOZ	SSB
11048.0	RIW	SN Khiva, UZ, URS	CW
11053.0	5KM	CN Bogota, CLM	75 Bd: 2200 clg NBA
11055.0	AFA	USAF A.AFB, C.S.,MD, USA	SSB
11058.0		VoA Tanger, MRC	(sp 10972.0 kHz)
11061.5	STK	Khartoum Air, SDN	0035 ry, 0219+0543+2336 msgs [SKA]
11063.0	LZU 2	Sofia Meteo, BUL	0601-1743 ry or wx
11065.0	YAV	Kabul Air, AFG	1528-0507 ry or clg EPD or msgs [KTA]
	9VF 69	TAS Singapore, SNG	SSB
11070.0	LOR	AN Puerto Belgrano, ARG	75 Bd: 1447+1957-0429 ry or msgs or msg (5lgs) or wx or navigational warnings
11076.5	OEC ..	Austrian E Moscow, RU, URS	SI-ARQ 96 Bd: 5 characters: 1346 msgs to OEC
11080.0		SANA Damascus, SYR	0700-1600 A nx, 1700 E nx, 1800 A nx
11086.5	*GFA 24*	*Bracknell Meteo, G*	*FAX // 3289.5 kHz $*
11090.0	*KVM 70*	*Honolulu Meteo, HWA*	*FAX // 9982.5 kHz $*
11095.0	MKD	RAF Akrotiri, CYP	VFT: 24 h ryi COMB
11098.5		MFA Rome, I	SITOR-A: 0852 msgs to Ankara, 0955 final tfc, s. off; 1600 msg (I nx), 1715 clg Cairo, 2341 msgs
11100.0	CAK	Santiago Air, CHL	24 h ry or msgs
11105.0		Marka, SOM	SSB
11108.8	'RFLI'	FF Fort de France, MRT	ARQ-M2 96 Bd: B: 0313-2340 msgs or "controle de voie" to 'RFFA' [ALI]
11110.0	LZG 2	BTA Sofia, BUL	1200+1300 E nx
11112.5	ETD 3	Addis Ababa Air, ETH	0152+1900+1927 ry
11114.0	TAD	MFA Ankara, TUR	FEC-A 144 Bd: 0920 msgs
11118.0	AEA	USA Heidelberg, D	SSB
	AFS	USAF AWS Om., NE, USA	75 Bd: 1540+2022 wx
11121.0	*AFS*	*USAF AWS Om., NE, USA*	*FAX // 3232.0 kHz*
11123.5	5YE	Nairobi Meteo, KEN	100 Bd: 0133+0412+0546+1233-1621 wx
11123.6	DFL 26	PIAB Bonn, D	FEC-A 96 Bd: 1300 G nx
11124.5	3BR	Plaine Corail Air, ROD	SSB
11125.0	DHJ 51	Grengel Meteo, D	100 Bd: 1233 wx
11126.0	LZU 2	Sofia Meteo, BUL	(sp 11063.0 kHz)
11132.0	RMP	SN Kaliningrad, RU, URS	CW
11133.0	BZG 41	XINHUA Beijing, CHN	1400-1900 F nx
	PBC 911	DN Goeree Island, NLD	75 Bd: 0700 ry
11138.7	PWN	BN Natal, B	0251 ry, tfc to PWBL

11140.0	**'RPFN'**	**PN Lisbon, POR**	**75 Bd: 1500 + 1521 ry**
11141.5		**MFA Rome, I**	**SITOR-A: 0755 msgs (5lgs)**
11142.0	KRH 50	USE London, G	CW
11145.0	ZRP	Sanae Base, ATA	SSB
	'RPTMB'	**PN Porto Santo, MDR**	**0130 ry, 2240 foxes**
11149.0	**'DFZG'**	**MFA Belgrade, YUG**	**75 Bd: 0530 ry, 0545 msg (SC press review), 1015 + 1510 ry, 1515 msg**
11150.0		VoA Greenvl. fdr., NC, USA	SSB
11155.0	'K'	Bcn. Khabarovsk, SE, URS	CW
11160.0	FDY	FAF Orleans, F	CW
11174.7	**5HD**	**Dar es Salaam Air, TZA**	**1536-0455 ry or msgs [DBA]**

11175.0 - 11275.0 AERONAUTICAL MOBILE (OR)

11176.0		many USAF stations	SSB
11179.0	AFA	USAF A.AFB, C.S.,MD, USA	SSB
	AFE	USAF MD. AFB, T., FL, USA	SSB
	AFL	USAF Lg. AFB, L.,ME, USA	SSB
	AGA	USAF H. AFB, Honol., HWA	SSB
11182.0	JWT	NN Stavanger, NOR	SSB
11185.0		Banda Aceh, INS	SSB
11193.0		AEROFLOT Mosc., RU, URS	SSB
11200.0	MVU	RAF London, G	SSB
	'Z'	Bcn. Mukachevo, UK, URS	CW
11204.0	MQP	RAF Upavon, G	SSB
11211.7		**MFA Cairo, EGY**	**SITOR-A: 0044 + 1630 + 1645 + 1656 ATU-A tfc**
11213.0	MKL	RAF Edinburgh, G	CW
11214.0	CHR	CF Trenton, ONT, CAN	SSB
11217.0	DHM 91	GAF Münster, D	SSB
11222.0		Stockholm Air, S	SSB
11224.0	ZKS	RNZAF Rarotonga, CKH	SSB
11226.0	AIE	USAF Andersen AFB, GUM	SSB
	AJE	USAF Croughton, G	SSB
	CUW	PAF/USAF Lajes AFB, AZR	SSB
11229.0	AJE	USAF Croughton, G	SSB
11233.0		many CF stations	SSB
11234.0	GFW	RAF Akrotiri, CYP	SSB
	MQP	RAF Upavon, G	SSB
		RAF Stanley, FLK	SSB
		RAF Wideawake, ASC	SSB
11236.0	AXJ	RAAF Pearce, WA, AUS	SSB
11236.7		**Egyptian E Ankara, TUR**	**SITOR-A: 1053 ATU-A tfc to Cairo**
		MFA Cairo, EGY	**SITOR-A: 0738 ATU-A msg**
11237.5		INTERFLUG Berlin, D	SSB
11239.0	AFI	USAF MC.AFB, S.,CA, USA	SSB
11241.7	**KNY 29**	**Eg. E Washingt., DC, USA**	**SITOR-A: 0200 msgs to Cairo**
11243.0		many USAF stations	SSB
11245.7		**Egyptian E Maputo, MOZ**	**SITOR-A: 1900 ATU-A msgs to Cairo**
11246.0	AFA	USAF A.AFB, C.S.,MD, USA	SSB
	AFE	USAF MD. AFB, T., FL, USA	SSB
11256.0	ETK 4	EA Addis Ababa, ETH	SSB
11263.0		**UNID station (190)**	**ARQ-E 192 Bd: 1828 encrypted tfc**
11267.0		many USAF stations	SSB
11271.0	CUW	PAF/USAF Lajes AFB, AZR	SSB

11271.7		**MFA Cairo, EGY**	**SITOR-A: 1641 ATU-A msgs**

11275.0 - 11400.0 AERONAUTICAL MOBILE (R)

11276.0		AMS = 2A 2C 6G 10E 13J	SSB
11279.0		AMS = NAT, 2B 6F 9C	SSB
11282.0		AMS = CEP, 4A 6G 13H	SSB
11285.0		AMS = 2A 3B 7	SSB
11288.0		AMS = 5A 6G 11B	SSB
11291.0		AMS = SAT, 3B 3C	SSB
11294.0		AMS = 2A 6G 7C	SSB
11297.0		AMS = 2 12F	SSB
11300.0		AMS = AFI, 6G 13H	SSB
11303.0		AMS = 3C 13E	SSB
11306.0		AMS = 6G 7E 11B	SSB
11309.0		AMS = NAT, 3A 6D	SSB
11311.7		**MFA Cairo, EGY**	**SITOR-A: 1342+1545 ATU-A tfc**
11312.0		AMS = 5 9C 9D	SSB
11315.0		AMS = 6G, VCAR	SSB
11318.0		AMS = 3 4A 13D	SSB
11321.0		AMS = 6A 13F	SSB
11324.0		AMS = 3A 3C 4B 12C	SSB
11327.0		AMS = SP, 3B 5 13C	SSB
11330.0		AMS = AFI NP, 3A 13F	SSB
11333.0		AMS = 2B 2C 10	SSB
11336.0		AMS = NAT, 3	SSB
11339.0		AMS = 2B 6B 9 13K	SSB
11342.0		AMS = W II/III	SSB
11345.0		AMS = W I/IV	SSB
11348.0		AMS = W II/V	SSB
11351.0		AMS = W I/III	SSB
11354.0		AMS = W II/V	SSB
11357.0		AMS = 6A 6E 10A	SSB
11359.0	RFNV	Moscow Air, RU, URS	CW
11360.0		AMS = SAM, 2 3 14	SSB
11363.0		AMS = 1 6E 10A	SSB
11366.0		AMS = 1C 6B 6F 13K	SSB
11369.0		AMS = 6G 13G	SSB
11372.0		AMS = 2C 3B 6D	SSB
11375.0		AMS = MID, 10A 13C	SSB
11378.0		AMS = 3C 13M, VEUR	SSB
11381.0		AMS = 6 12E 12J	SSB
11384.0		AMS = CWP, 1D 12J	SSB
11387.0		AMS = CAR, VSEA	SSB
11390.0		AMS = 2 10	SSB
11393.0		AMS = 9B 12E, VMID	SSB
11396.0		AMS = CAR EA SEA	SSB

11400.0 - 11650.0 FIXED

11411.7	*HMG 62*	*KCNA Pyongyang, KRE*	*FAX // 7363.7 kHz*
11412.0	**GXQ**	**BA London, G**	**VFT: 0244 ryi** COMB
11415.0	FDY	FAF Orleans, F	CW
11420.0	*BDF*	*Shanghai Meteo, CHN*	*FAX // 7420.0 kHz*
	FJY 4	**Martin de Vivies Meteo, AMS**	**75 Bd: 0000+0200 ry, wx; 0300 clg Reunion, anns "QSW 11550" (?!) where ZAN; 0305 wx**

11420.0	'VNA 86'	VNA Hanoi, VTN	1100 + 1200 + 1300 F nx, 1330 V nx, 1500 + 1600 + 1700 + 1900 E nx
11423.5	SOL 242B	PAP Warsaw, POL	SITOR-B: 1200 + 1400 + 1800 Polish nx
	SPW	Warsaw R, POL	SITOR-A: 0125 + 1545 tts CW
11425.0	SPW	Warsaw R, POL	SSB
11428.5	STK	Khartoum Air, SDN	1848 msgs [SVA]
11430.0	HMF 55	KCNA Pyongyang, KRE	1230-1430 R nx wca, 2100 + 2300 F nx
11432.0	HMF 21	KCNA Pyongyang, KRE	1000-1100 E nx
11440.0	EIP	Shannon Air, IRL	1057 msg, 1147 ry, 1213 msg [SMA]
	5NK	Kano Air, NIG	0453 + 0540 + 1845 + 1930 + 2057 ry
11443.0	9JZ	Lusaka Air, ZMB	0249-0538 + 1630-2120 msgs [LZA]
11445.0	FDY	FAF Orleans, F	CW
11450.0	RDD 77	Moscow Meteo, RU, URS	24 h ry or wx
11453.0	IMB 3	Rome Meteo, I	24 h ry or wx
11461.1	5UA	ASECNA Niamey, NGR	ARQ-M2 96 Bd: A: 2030 meteo msgs fm North Africa, 2046 "QRT"; change to AFTN msgs [NOB]
11461.5		Italian E El Djaza'ir, ALG	SITOR-A: 1638 msg (5lgs) to Rome
11464.0	SNN 299	MFA Warsaw, POL	75 Bd: 0655 ry, msgs
11467.0	SNN 299	MFA Warsaw, POL	75 Bd: 0720 ry, 0747 msg
11470.0	RNK 33	TASS Moscow, RU, URS	1700 + 1800 + 2200 E nx
11474.0	KKN 44	USE Monrovia, LBR	CW
11475.0	HMF 52	KCNA Pyongyang, KRE	0030-0100 F nx, 0400 + 1800 + 1900 + 2100 E nx, 2330-2400 F nx
11475.7	*HMF 52*	*KCNA Pyongyang, KRE*	*FAX // 7363.7 kHz*
11477.0		VoA La Union, P.I., PHL	75 Bd: 2200 + 2300 E nx
11480.0	*AZG 641*	*AP Buenos Aires, ARG*	*FAX // 5777.5 kHz*
	RGE 32	R Moscow feeder, RU, URS	SSB
11486.0	TUH	ASECNA Abidjan, CTI	0645 ry
11488.0	RIW	SN Khiva, UZ, URS	CW
11490.0	VLV	OTC Mawson, ATA	0300 wx
11494.0	SOL 249	PAP Warsaw, POL	1100 E nx, 1200 Polish nx, 1500 R nx wca
11497.0	SOL 349	PAP Warsaw, POL	0000 + 1400 E nx
11500.0	8BB 35	Jakarta Meteo, INS	24 h ry or wx
		Padang, INS	SSB
11502.0	LZH 4	BTA Sofia, BUL	0800 + 1330 + 1830 E nx
11507.5	STK	Khartoum Air, SDN	24 h ry or msgs [SVA]
11510.0	RGD 29	R Moscow feeder, RU, URS	ISB
11515.0	TZH	ASECNA Bamako, MLI	0600-0812 ry or msgs [BIA]
11518.0	FDY	FAF Orleans, F	CW
11520.0	RCR 77	Khabarovsk Met., SE, URS	24 h wx
11525.0	*RWZ 77*	*Moscow Meteo, RU, URS*	*FAX // 53.6 kHz $*
11528.7		Egyptian E Belgrade, YUG	SITOR-A: 1012 encrypted msg to Cairo
11530.0	8IS 370	PERTAMINA Cinta Oilf., INS	CW
11535.0	SOL 353	PAP Warsaw, POL	CW
11536.0	HMF 49	KCNA Pyongyang, KRE	0800-1030 E nx, 1145-1430 + 1800-2100 F nx

11538.4	**DMK**	**MFA Bonn, D**	**ARQ-E 96 Bd: 0740 msgs to Athens, 0900 msgs to Madrid, 1225 msg to Lagos** CW
		German E Athens, GRC	**ARQ-E 96 Bd: 1148 tfc to Bonn**
11541.0	**7OC**	**Khormaksar Air, YEM**	**1350-0454 ry or clg ETD 3 or msg**
11546.0	**5YD**	**Nairobi Air, KEN**	**1204-0710 ry or msgs**
11550.0	**FJY 4**	**M. de Vivies Meteo, AMS**	**ARQ-M2 96 Bd: A: 0300 wx**
11570.0	**BZC 75**	**Urumqi Meteo, CHN**	**0113 wx, 0322 ry**
	NBA	**USN Balboa, PNR**	**75 Bd: 1144-2108 ry or clg HDN or tfc + msgs to PWZ**
11572.0	**'P6Z'**	**MFA Paris, F**	**0835 msg (5lgs), 0900 msg (F nx) to 'K4X'**
11575.0	**RVL 29**	**APN Moscow, RU, URS**	**100 Bd: 0700+0800 R nx wtsca**
	RVL 29	R Moscow feeder, RU, URS	SSB
11601.0	**7XA 98**	**El Djaza'ir Meteo, ALG**	**0307-1547 wx**
11602.5	**6MK 64**	**YONHAP Soul, KOR**	**0030+0700+1200 E nx** *FAX // 6915.0 kHz*
11604.0	**Y2J 3**	**TANJUG Belgrade, YUG**	**0400-1700 E nx**
11615.0	**RGD 27**	**APN Moscow, RU, URS**	**100 Bd: 0800-1200 R nx wtsca**
	RGD 27	R Moscow feeder, RU, URS	SSB
11620.0	HLL 3	Soul Meteo, KOR	CW
11621.7	**MUA**	**BA London, G**	**ARQ-M2 96 Bd: A: 0858+0904+1606 encrypted tfc**
11625.0	**'DFZG'**	**MFA Belgrade, YUG**	**75 Bd: 0730 encrypted msgs after "KBKBKB..." or "XYXYXY..."**
11636.5	**KRH 51**	**USE London, G**	**75 Bd: 0217+0709+1855+2246 foxes**
11638.0	**DDK 8**	**Hamburg Meteo, D**	**24 h ry or wx**
11645.0	**HLL 6**	**Soul Meteo, KOR**	**0915 ry, wx**

11650.0 - 12050.0 BROADCASTING <530 531>

11662.5	*CAN 6D*	*Presidente Eduardo Frei Montalva Meteo, CHL*	*FAX // 5302.5 kHz* CW
11676.4	**TJK**	**ASECNA Douala, CME**	**1716+2109-0658 ry**
11680.0	**BZP 51**	**XINHUA Beijing, CHN**	**75 Bd: 0100+1400-1800 E nx**
12008.0	EBC	SN Cadiz TS, E	CW/SSB
12022.5	KKN 50	MFA Washington, DC, USA	CW
12024.0	**UHF 3**	**Moscow, RU, URS**	**0015-1033 ry or msgs (5lgs)** CW
12040.0	NDT	USN Yokosuka, J	COMB

12050.0 - 12230.0 FIXED

12056.0	**UHF 3**	**Moscow, RU, URS**	**0637 tfc, 1035 msg (5lgs)**
12057.0	**'RPTMB'**	**PN Porto Santo, MDR**	**1845 clg + tfc to 'RPFN'**
12063.0	**'RFLIG'**	**FF Cayenne, GUF**	**ARQ-E 72 Bd: 0100+1905 msg to 'RFLIA'; 2016 msg + encrypted msg after "KKKK..." to 'RFLIA' [IGA]**
12065.0	**EPD**	**Tehran Air, IRN**	**24 h ry or "ch" or msg**
12070.0	**JAL 32**	**KYODO Tokyo, J**	**0430-0600+0610-0640 E nx**
12075.0	**VVD 62**	**Delhi Meteo, IND**	**24 h wx**
12078.0	**SNN 299**	**MFA Warsaw, POL**	**75 Bd: 0710 ry, msg (Polish nx)**
12082.5	IRJ 50	ANSA Rome, I	CW

12083.0	IRJ 50	ANSA Rome, I	1800 E nx
12083.5	CLP 7	Cuban E Brazzaville, COG	1600 tfc to CLP 1
12085.0	RCB 55	TASS Moscow, RU, URS	0415-0545+0700+0900+1300 E nx, 1800 A nx
		Manila, PHL	SSB
12087.0		UNID station (190)	ARQ-E 192 Bd: 1102+1538 encrypted tfc
12090.2	'RFTJFA'	FF Praia, Santiago, CPV	ARQ-E3 96 Bd: 2210 "controle de voie" [AFL]
12096.5	XVN	Hanoi Meteo, VTN	0055 wx, 0624+0924 ry
12100.0	RTU 40	R Moscow feeder, RU, URS	ISB
12103.0	SAM	MFA Stockholm, S	SWED-ARQ: 1433 tfc to SAM 49
	SAM 49	Swedish E Jeddah, ARS	SWED-ARQ: 1433 msg to SAM
12104.0	RIW	SN Khiva, UZ, URS	CW
12108.0	IRJ 21	ANSA Rome, I	0800 E nx, 0900 F nx, 1000 E nx, 1100 F nx, 1200 E nx, 1400 F nx, 1500+1800 E nx
12110.0	YOM 21	ROMPRES Bucharest, ROU	1100+1200 E nx
	ZBP	Adamstown R, PTC	CW
12115.0	GYD	RN London, G	VFT: ARQ-M2 96 Bd: A: 1438 wx B: 1440 encrypted tfc ARQ-M4 192 Bd: B: 1448 wx COMB
12118.0	ZLK 43	USN Christchurch, NZL	75 Bd: 0757 air msgs [PCA], 1539 ry, 1843 air msgs [CKA]
12126.5		MFA Rome, I	SITOR-A: 0800 msg (5lgs), 1111 tfc
12128.0		MFA Rome, I	ARQ-E 96 Bd: 1032 msgs (5lgs)
12133.0	GKX 51	Portishead Air, G	SSB
12135.0	NAM	USN Norfolk, VA, USA	CW
12140.0		Nairobi, KEN	SSB
12141.0		R Moscow feeder, RU, URS	SSB
12145.0	NDT	USN Yokosuka, J	COMB
12148.0	MKD	RAF Akrotiri, CYP	VFT: 0423+1942 ryi COMB
12149.5	'K'	Bcn. Khabarovsk, SE, URS	CW
12152.0	MKT	RAF London, G	VFT: ARQ-M2 96 Bd: A: 0848-1107+1505 AFTN msgs [ANO] or wx or encrypted tfc B: 0953 encrypted tfc, 1106 wx COMB
12160.0	RGD 25	R Moscow feeder, RU, URS	ISB
12162.7	C8E 32.	Nacala, MOZ	SSB
12165.0	*RKB 78*	*Moscow Meteo, RU, URS*	*FAX // 144.5 kHz $*
12169.7		*KCNA Pyongyang, KRE*	*FAX // 7363.7 kHz*
12170.0	*RNR 4*	*Magadan Meteo, FE, URS*	*FAX // 5755.0 kHz*
12174.2	ETD 3	Addis Ababa Air, ETH	1315-0622 ry or msgs [VJA]
12175.0	HMF 42	KCNA Pyongyang, KRE	0400-0730+1830-2100+2130-2300 E nx
12182.0	6OM	Muqdisho Air, SOM	2341 ry
12184.5	'U'	Bcn. Murmansk, RU, URS	CW
12186.0		JANA Tripoli, LBY	1400+1500+1600 F nx, 1700+1800+1900 E nx
12186.5	PWR	BN Recife, B	CW
12188.6	'RFVI'	FF Le Port, REU	ARQ-M2 96 Bd: A: 1348 tfc, 1733 "controle de voie" [VII]
12201.0	FDY	FAF Orleans, F	1838+1950 ry
12202.0		Italian E Colombo, SLK	SITOR-A: 0232 msg (5lgs) to Rome

12210.0	KWL 90	USE Manila, PHL	CW
	PWF	**BN Salvador, B**	**2047+2245 tfc to PWZ**
	PWZ	**BN Rio de Janeiro, B**	**0350 ry**
12212.5	**YZO 7**	**TANJUG Belgrade, YUG**	**0000-0500+0700-1700 E nx**
12216.0	**SNN 299**	**MFA Warsaw, POL**	**75 Bd: 0830 msgs**
12222.5	**RUD 38**	**APN Moscow, RU, URS**	**100 Bd: 0700 A nx, 0800 F nx, 0900 A nx, 1000 F nx**
12223.5		**VoA Tanger, MRC**	**75 Bd: 0100+0200 A nx, 2200-0100 E nx**
12224.5	**FSB**	**INTERPOL Paris, F**	**SITOR-A: 0828+1419+1602+1724 encrypted tfc** CW
12228.0	**SNN 299**	**MFA Warsaw, POL**	**75 Bd: 0428 ry, 0554 msg (5fgs), 0715 ry, tfc to Bucharest; 1600 "tfc list" to European embassies, 1800 ry, msg to Berne**

12230.0 - 13200.0 MARITIME MOBILE <500A 500B 520B 529A 532>

12230.0	*RCU 79*	*Novosibirsk M., SW, URS*	*FAX // 3635.0 kHz $*
12236.0	7CB	IN Belawan, INS	CW
12245.0	**HZN**	**Jeddah Meteo, ARS**	**0512-1712 wx**
	NPO	USN Subic Bay, PHL	COMB
12253.0	FTM 25	DTRE Paris, F	SSB
12255.0	**CLP 1**	**MFA Habana, CUB**	**0823 msgs**
12262.5	**HGX 21**	**MFA Budapest, HNG**	**DUP-ARQ: 0817 msg, 1114 tfc + msgs (5fgs) to HGX 23**
12262.8	**HGX 23**	**Hungarian E Rome, I**	**DUP-ARQ: 1158 tfc + msgs (5fgs) + msg to HGX 21**
12263.0	**TTL**	**ASECNA N'djamena, TCD**	**1554-0836 ry or msgs [TNA]**
12265.0	**BZR 62**	**XINHUA Beijing, CHN**	**75 Bd: 0200+1400-1800 E nx**
12275.0	**JAL 82**	**KYODO Tokyo, J**	**0430-0600+0610-0640+0720-0820+1000-1100 E nx**
12285.0	**RKU 74**	**APN Moscow, RU, URS**	**100 Bd: 0700-1200 R nx wtsca**
	RKU 74	**TASS Moscow, RU, URS**	**0415-0545 E nx, 1700 P nx, 1800+1900 A nx**
12290.0	WORLDWIDE	DISTRESS AND SAFETY FREQ.	SSB
12297.0	**'DFZG'**	**MFA Belgrade, YUG**	**75 Bd: 0658+1437 tfc**
12313.0	**5YE**	**Nairobi Meteo, KEN**	**0430+1820 wx**
12315.0	*AOK*	*USN Rota, E*	*FAX // 4704.0 kHz $*
	RVW 57	**TASS Moscow, RU, URS**	**0430-1800 E nx**
12317.0	*5YE*	*Nairobi Meteo, KEN*	*FAX // 7464.5 kHz $*
12320.0	*RYO 76*	*Novosibirsk M., SW, URS*	*FAX // 5765.0 kHz $*
12323.0	**CSY**	**Santa Maria Air, AZR**	**0323 ry, 0600+1840+1920+2006 msg [MSA]**
12325.0	**RDD 72**	**TASS Moscow, RU, URS**	**0415-0545 E nx, 0600+1600 F nx, 1700 E nx, 2100 A nx**
12327.5	'U'	Bcn. Murmansk, RU, URS	CW
12329.0	OVG 12	DM Frederikshavn, DNK	CW
12330.0		ship stations, ch 1201	SSB QSX 13100.8 kHz
12333.1		ship stations, ch 1202	SSB QSX 13103.9 kHz
	WCM	Withamsville R, OH, USA	
12336.2		ship stations, ch 1203	SSB QSX 13107.0 kHz
12339.3		ship stations, ch 1204	SSB QSX 13110.1 kHz
12342.4		ship stations, ch 1205	SSB QSX 13113.2 kHz
12345.5		ship stations, ch 1206	SSB QSX 13116.3 kHz
12348.6		ship stations, ch 1207	SSB QSX 13119.4 kHz
12351.7		ship stations, ch 1208	SSB QSX 13122.5 kHz

12354.8		ship stations, ch 1209	SSB	QSX 13125.6 kHz
12357.9		ship stations, ch 1210	SSB	QSX 13128.7 kHz
12361.0		ship stations, ch 1211	SSB	QSX 13131.8 kHz
12362.0		*XINHUA Beijing, CHN*	*FAX // 5815.0 kHz*	
12364.1		ship stations, ch 1212	SSB	QSX 13134.9 kHz
12367.2		ship stations, ch 1213	SSB	QSX 13138.0 kHz
12370.3		ship stations, ch 1214	SSB	QSX 13141.1 kHz
12373.4		ship stations, ch 1215	SSB	QSX 13144.2 kHz
12376.5		ship stations, ch 1216	SSB	QSX 13147.3 kHz
12379.6		ship stations, ch 1217	SSB	QSX 13150.4 kHz
12382.7		ship stations, ch 1218	SSB	QSX 13153.5 kHz
12385.8		ship stations, ch 1219	SSB	QSX 13156.6 kHz
12388.9		ship stations, ch 1220	SSB	QSX 13159.7 kHz
12392.0		ship stations, ch 1221 (WORLDWIDE CALLING FREQ.)	SSB	QSX 13162.8 kHz
12395.1		ship stations, ch 1222	SSB	QSX 13165.9 kHz
12398.2		ship stations, ch 1223	SSB	QSX 13169.0 kHz
12401.3		ship stations, ch 1224	SSB	QSX 13172.1 kHz
12404.4		ship stations, ch 1225	SSB	QSX 13175.2 kHz
12407.5		ship stations, ch 1226	SSB	QSX 13178.3 kHz
12410.6		ship stations, ch 1227	SSB	QSX 13181.4 kHz
12413.7		ship stations, ch 1228	SSB	QSX 13184.5 kHz
12416.8		ship stations, ch 1229	SSB	QSX 13187.6 kHz
12419.9		ship stations, ch 1230	SSB	QSX 13190.7 kHz
12421.0		Port of Spain R, TRD	SSB	
		Roseau Port R, DMA	SSB	
12423.0		ship stations, ch 1231	SSB	QSX 13193.8 kHz
12426.1		ship stations, ch 1232	SSB	QSX 13196.9 kHz
12428.0	HOR 24	REFPA Panama R, PNR	SSB	
12429.2	WORLDWIDE	COAST AND SHIP STATIONS SIMPLEX FREQUENCY	SSB	
12432.3	WORLDWIDE	COAST AND SHIP STATIONS SIMPLEX FREQUENCY	SSB	
12435.4	WORLDWIDE	COAST AND SHIP STATIONS SIMPLEX FREQUENCY	SSB	
12469.7		**MFA Cairo, EGY**	**SITOR-A: 0701 + 1558-2028 ATU-A tfc**	
12491.5		**ship stations, channel 1**	**QSX 13071.5 kHz**	
12492.0		**ship stations, channel 2**	**QSX 13072.0 kHz**	
12492.5		**ship stations, channel 3**	**QSX 13072.5 kHz**	
12493.0		**ship stations, channel 4**	**QSX 13073.0 kHz**	
12493.5		**ship stations, channel 5**	**QSX 13073.5 kHz**	
12494.0		**ship stations, channel 6**	**QSX 13074.0 kHz**	
12494.5		**ship stations, channel 7**	**QSX 13074.5 kHz**	
12495.0		**ship stations, channel 8**	**QSX 13075.0 kHz**	
12495.5		**ship stations, channel 9**	**QSX 13075.5 kHz**	
12496.0		**ship stations, channel 10**	**QSX 13076.0 kHz**	
12496.5		**ship stations, channel 11**	**QSX 13076.5 kHz**	
12497.0		**ship stations, channel 12**	**QSX 13077.0 kHz**	
12497.5		**ship stations, channel 13**	**QSX 13077.5 kHz**	
12498.0		**ship stations, channel 14**	**QSX 13078.0 kHz**	
12498.5		**ship stations, channel 15**	**QSX 13078.5 kHz**	
12499.0		**ship stations, channel 16**	**QSX 13079.0 kHz**	
12499.5		**ship stations, channel 17**	**QSX 13079.5 kHz**	
12500.0		**ship stations, channel 18**	**QSX 13080.0 kHz**	
12500.5		**ship stations, channel 19**	**QSX 13080.5 kHz**	
12501.0		**ship stations, channel 20**	**QSX 13081.0 kHz**	
12501.5		**ship stations, channel 21**	**QSX 13081.5 kHz**	
12502.0		**ship stations, channel 22**	**QSX 13082.0 kHz**	
12502.5		**ship stations, channel 23**	**QSX 13082.5 kHz**	

12503.0		ship stations, channel 24	QSX 13083.0 kHz
12503.5		ship stations, channel 25	QSX 13083.5 kHz
12504.0		ship stations, channel 26	QSX 13084.0 kHz
12504.5		ship stations, channel 27	QSX 13084.5 kHz
12505.0		ship stations, channel 28	QSX 13085.0 kHz
12505.5		ship stations, channel 29	QSX 13085.5 kHz
12506.0		ship stations, channel 30	QSX 13086.0 kHz
12506.5		ship stations, channel 31	QSX 13086.5 kHz
12507.0		ship stations, channel 32	QSX 13087.0 kHz
12507.5		ship stations, channel 33	QSX 13087.5 kHz
12508.0		ship stations, channel 34	QSX 13088.0 kHz
12508.5		ship stations, channel 35	QSX 13088.5 kHz
12509.0		ship stations, channel 36	QSX 13089.0 kHz
12509.5		ship stations, channel 37	QSX 13089.5 kHz
12510.0		ship stations, channel 38	QSX 13090.0 kHz
12510.5		ship stations, channel 39	QSX 13090.5 kHz
12511.0		ship stations, channel 40	QSX 13091.0 kHz
12511.5		ship stations, channel 41	QSX 13091.5 kHz
12512.0		ship stations, channel 42	QSX 13092.0 kHz
12512.5		ship stations, channel 43	QSX 13092.5 kHz
12513.0		ship stations, channel 44	QSX 13093.0 kHz
12513.5		ship stations, channel 45	QSX 13093.5 kHz
12514.0		ship stations, channel 46	QSX 13094.0 kHz
12514.5		ship stations, channel 47	QSX 13094.5 kHz
12515.0		ship stations, channel 48	QSX 13095.0 kHz
12515.5		ship stations, channel 49	QSX 13095.5 kHz
12516.0		ship stations, channel 50	QSX 13096.0 kHz
12516.5		ship stations, channel 51	QSX 13096.5 kHz
12517.0		ship stations, channel 52	QSX 13097.0 kHz
12517.5		ship stations, channel 53	QSX 13097.5 kHz
12518.0		ship stations, channel 54	QSX 13098.0 kHz
12518.5		ship stations, channel 55	QSX 13098.5 kHz
12519.0		ship stations, channel 56	QSX 13099.0 kHz
12519.5		ship stations, channel 57	QSX 13099.5 kHz
12520.0		ship stations, non-paired	
	WORLDWIDE	NBDPT DISTR. AND SAFETY F.	
		ship stations	QSX 12770.0 kHz (GKS 5)
12520.5		ship stations, non-paired	
12521.0		ship stations, non-paired	
12521.5		ship stations, non-paired	
		ship stations	QSX 13602.4 kHz (SPW)
12522.0		ship stations, non-paired	
12522.5		ship stations, non-paired	
12523.0		ship stations, non-paired	
12523.5		ship stations, non-paired	
		ship stations	QSX 12818.0 kHz (SAB 63)
12524.0		ship stations, non-paired	
12524.5		ship stations, non-paired	
12525.0		ship stations, non-paired	
12525.5		ship stations, non-paired	
12526.0		ship stations, non-paired	
12526.5		ship stations, non-paired	
12540.6		ship stations calling, ch 1	CW
12541.8		ship stations calling, ch 2	CW
12543.0		ship stations calling, ch 3	CW
12544.2		ship stations calling, ch 4	CW
12545.4		ship stations calling, ch 5	CW
12546.6		ship stations calling, ch 6	CW
12547.8		ship stations calling, ch 7	CW
12549.0		ship stations calling, ch 8	CW

12550.2		ship stations calling, ch 9	CW
12551.4		ship stations calling, ch 10	CW
12552.6		ship stations calling, ch 11	CW
12553.8		ship stations calling, ch 12	CW
12555.0		ship stations calling, ch 13	CW
12556.2		ship stations calling, ch 14	CW
12557.4		ship stations calling, ch 15	CW
12558.6		ship stations calling, ch 16	CW
12559.8		ship stations calling, ch 17	CW
12561.0		ship stations calling, ch 18	CW
12562.0	**WORLDWIDE**	**SHIP STATIONS DSC FREQUENCY**	
12562.5	**WORLDWIDE**	**SHIP STATIONS DSC FREQUENCY**	
12577.0	**WORLDWIDE**	**DSC DISTRESS AND SAFETY F.**	
12579.0	**WORLDWIDE**	**NBDPT MSI FREQUENCY**	
12624.0		**ship stations**	**QSX 8454.0 kHz (UJY)**
12625.5		**ship stations**	**QSX 12877.5 kHz (UJY)**
12631.5		**ship stations**	**QSX 8605.0 kHz (UJY)**
12655.0	6VA 6	Dakar R, SEN	CW
12655.5	CW./..	many UN stations, URG	CW
	FFT 6	Saint Lys R, F	CW
12657.0	*EBA*	*SN Madrid, E*	*FAX 120/576: 0850 S nx (text), 1318 charts*
12658.0	JNA	JN Tokyo, J	CW
	UVD	Magadan R, FE, URS	CW
12658.5	HZG	Dammam R, ARS	CW
12659.0	LZW 5	Varna R, BUL	CW
12659.5	9VG 37	Singapore R, SNG	CW
12660.0	J..	many R stations, J	CW
	S7Q	Victoria R, Mahe, SEY	CW
	WLO	Mobile R, AL, USA	CW
	YIR	Basrah Control R, IRQ	CW
	5AB	Benghazi R, LBY	CW
	9PA	Banana R, ZAI	CW
12660.5	**UNQ**	**Novorossiysk R, RU, URS**	**1309 R tts wtsca** CW
12661.5	D.. .	many R stations, PHL	CW
	UMV	**Murmansk R, RU, URS**	**0104 + 0818-1942 R tts wtsca** CW
	XSG	Shanghai R, CHN	CW
12662.0	XSL	Fuzhou R, CHN	CW
	7TA 8	El Djaza'ir R, ALG	CW
	7TF	Skikda R, ALG	CW
12663.0	CBV	DGTMMM Valpar. R, CHL	CW
	ZSD 51	Durban R, AFS	CW
12664.0	FUM	FN Papeete, Tahiti, OCE	CW
12666.5	5BA	Nicosia R, CYP	CW
12667.5	JCX	Naha R, J	CW
12669.0	OFJ 3	Helsinki R, FNL	CW
	9GA	Takoradi R, GHA	CW
12671.0	VFA	CCG Inuvik, NWT, CAN	CW
	VFF	CCG Iqaluit, NWT, CAN	CW
12671.5	**UDH**	**Riga R, LA, URS**	**1144 + 1505 + 1953 R tts wtsca** CW
12673.5	CLA 33	Habana R, CUB	CW
	EDF 4	Madrid R, E	CW
	ETC	Assab R, ETH	CW
	JOU	Nagasaki R, J	CW
12674.0	PPL	Belem R, B	CW
12675.0	XFB	Ciudad del Carmen R, MEX	CW
	XFK	La Paz R, MEX	CW

12675.5	A4M	Muscat R, OMA	CW
12678.0	FFS 6	Saint Lys R, F	CW
	UQB	Kholmsk R, FE, URS	CW
	YJM 3	Port-Vila R, Efate I., VUT	CW
	9MG 3	Georgetown R, Pin. I., MLA	CW
12680.0	5AT	Tripoli R, LBY	CW
12681.5	Y5M	Rügen R, D	CW
12682.5	**LFC**	**Rogaland R, NOR**	**SITOR-A: 24 h tts** **SITOR-B: 0700 N nx, 1000 tfc list, 1500 N nx, 1600 tfc list, 1900 N nx** CW
	P..	many R stations, INS	CW
	TNA 12	Pointe-Noire R, COG	CW
12683.0	NPO	USN Subic Bay, PHL	COMB
12686.0	PKE	Amboina R, INS	CW
12687.0	JCT	Choshi R, J	CW
	OFJ 32	Helsinki R, FNL	CW
	PPR	Rio de Janeiro R, B	CW
12687.8	RIT	SN Vaygach, RU, URS	CW
12688.5	**UQK**	**Riga R, LA, URS**	**1014 + 1510 + 1720 + 2017 R tts wtsca** CW
12689.0	LZL 5	Bourgas R, BUL	CW
	PPL	Belem R, B	CW
12689.5	PPJ	Juncao R, B	CW
12690.0	UJY	Kaliningrad R, RU, URS	CW
	ZAD 2	Durres R, ALB	CW
12691.0	EDF 44	Madrid R, E	CW
	FUX	FN Le Port, REU	CW
	GXH	RN/USN Thurso, G	CW
12692.0	PPO	Olinda R, B	CW
	RIT	SN Vaygach, RU, URS	CW
12692.2	ZRH 5	SAN Cape Town, AFS	CW
12693.0	URD	Leningrad R, RU, URS	CW
	ZRQ	**SAN Cape Town, AFS**	**75 Bd: 1952 ry, 2000 wx**
12693.8	ZRQ 5	SAN Cape Town, AFS	CW
12695.0	OBY 2	Paita R, PRU	CW
12695.5	CNP	Casablanca R, MRC	CW
	KFS	San Francisco R, CA, USA	CW
	XSX	Keelung R, TAI	CW
12696.5	5OZ 23	Port Harcourt R, NIG	CW
12697.8	5RS	Toamasina R, MDG	CW
12698.0	A9M	Hamala R, BHR	CW
	FUJ	FN Noumea, NCL	CW
	ZSC 9	Cape Town R, AFS	CW
12699.0	HPP	Panama R, PNR	CW
	YKI	SCOTC Tartus R, SYR	CW
12700.0	D4D	Praia R, Santiago, CPV	CW
	EQM	Bushire R, IRN	CW
	EQN	Khomeini R, IRN	CW
	EQQ	Khark R, IRN	CW
	H4H 8	Honiara R, SLM	CW
	XSQ 4	Guangzhou R, CHN	CW
	3DP	Suva R, FJI	CW
12701.0	**FUB**	**FN Paris, F**	**0755 clg 'BNAC', anns "hotel alfa 0800z"**
12702.0	CKN	CF Vancouver, BC, CAN	CW
	Y5M	Rügen R, D	CW
12703.0	UNM 2	Klaipeda R, LI, URS	CW

12703.0	XFL	Mazatlan R, MEX	CW
12704.5	JFM	Muroto F R, J	CW
	PKD	Surabaya R, INS	CW
	PKM	Bitung R, INS	CW
	WLO	Mobile R, AL, USA	CW
12705.0	DHJ 59	GN Wilhelmshaven, D	CW
	XSR	Haikou R, CHN	CW
12705.5	WLO	Mobile R, AL, USA	CW
12706.0	**UQK**	**Riga R, LA, URS**	**1718 R tts wtsca**
			CW
12706.5	LST	YPF Buenos Aires, ARG	CW
12707.0	9VG 34	Singapore R, SNG	CW
12708.0	XFQ	Salina Cruz R, MEX	CW
12709.0	A9M	Hamala R, BHR	CW
	ELC	Monrovia R, LBR	CW
	FJP 23	Noumea R, NCL	CW
	LSA 5	Boca R, ARG	CW
	LZL 5	Bourgas R, BUL	CW
	ZSC 23	Cape Town R, AFS	CW
	8PO	Bridgetown R, BRB	CW
	8RB	Demerara R, GUY	CW
12709.2	VRT	Hamilton R, BER	CW
	9HD	Valetta R, MLT	CW
12710.0	VWB	Bombay R, IND	CW
	XSZ	Dalian R, CHN	CW
12711.0	HCG	Guayaquil R, EQA	CW
	UBN	**Zhdanov R, UK, URS**	**1203+1310 R tts wtsca**
			CW
12712.0	HLW 3	Soul R, KOR	CW
12712.9	GKN 5	Portishead R, G	CW
12714.0	CBV	DGTMMM Valpar. R, CHL	CW
	DUF	Manila R, PHL	CW
	GKM 5	Portishead R, G	CW
	UXN	**Arkhangelsk R, RU, URS**	**SITOR-A: 0434-1951 R tts wtsca** **SITOR-B: 1400 s. on with R tts wtsca; 1506+1718 R tts wtsca, 2100 R navigational warnings wtsca**
			CW
12714.9	GKO 5	Portishead R, G	CW
12715.0	UJQ 7	Kiyev R, UK, URS	CW
12718.5	NMN	USCG Portsm., VA, USA	CW
	VWM	Madras R, IND	CW
12719.0	PPR	Rio de Janeiro R, B	CW
12719.8	ZLO 5	RNZN Waiouru, NZL	CW
12720.0	SVD 5	Athens R, GRC	CW
	UPB	Provideniya R, FE, URS	CW
12721.0	SPH 61	Gdynia R, POL	CW
12721.5	*NWC*	*USN Exmouth, WA, AUS*	*FAX // 5262.0 kHz $*
12722.0	FJY 4	Martin de Vivies R, AMS	CW
12723.0	UAH	Tallinn R, ES, URS	CW
	5OZ 23	Port Harcourt R, NIG	CW
12724.0	9VG 57	Singapore R, SNG	CW
12725.0	JYO	Aqaba R, JOR	CW
	OBC 3	Callao R, PRU	CW
	OSN 412	BN Oostende, BEL	CW
12726.0	CFH	CF Halifax, NS, CAN	CW
	DUS	Manila R, PHL	CW
12727.0	HLJ	Soul R, KOR	CW
12727.5	LGJ	Rogaland R, NOR	CW

12727.5	XSL	Fuzhou R, CHN	CW
	XSW	Kaohsiung R, TAI	CW
12728.0	J2A 9	Jibuti R, DJI	CW
	L2C	Buenos Aires R, ARG	CW
	L2X	Comod. Rivadavia R, ARG	CW
	YKM 7	Al Ladhiqiyah R, SYR	CW
12729.0	**UFL**	**Vladivostok R, SE, URS**	**0441 + 2316 R tts wtsca** CW
	XFN	Progreso R, MEX	CW
12730.0	*NMC*	*USCG San Francisco, CA, USA*	*FAX // 4346.0 kHz $* CW
	UMV	Murmansk R, RU, URS	CW
12732.0	DUN	PN Manila, PHL	CW
	UBN	Zhdanov R, UK, URS	CW
12733.0	PPJ	Juncao R, B	CW
	TCR	TURBAN Istanbul R, TUR	CW
12733.5	9VG 20	Singapore R, SNG	CW
12734.0	XSP	Shantou R, CHN	CW
12735.0	HLX	Soul R, KOR	CW
	URL	**Sevastopol' R, UK, URS**	**0913 R tts wtsca** CW
12736.5	PWZ	BN Rio de Janeiro, B	CW
	TAH	Istanbul R, TUR	CW
12738.0	PPR	Rio de Janeiro R, B	CW
12739.0	**UAT**	**Moscow R, RU, URS**	**SITOR-A: 1830 R nx wtsca, 1950 R tts wtsca**
12740.0	XDA	Mexico City R, MEX	CW
	XSD	Yingkou R, CHN	CW
	ZLB 5	Awarua R, NZL	CW
12741.0	HWN	FN Paris, F	CW
12741.6	*GZZ 44*	*RN London, G*	*FAX // 2813.6 kHz $* CW
12742.0	PPL	Belem R, B	CW
12743.0	CBV	DGTMMM Valparaiso R, CHL	CW
	NRV	USCG Apra Harbour, GUM	CW
12744.0	DUW	Manila R, PHL	CW
	RCV	SN Moscow, RU, URS	CW
12745.0	Y5M	Rügen R, D	CW
12745.5	*JJC*	*Tokyo R, J*	*FAX // 4316.0 kHz*
	VWC	Calcutta R, IND	CW
12747.5	CBV	DGTMMM Valpar. R, CHL	CW
12748.0	CLA 30	Habana R, CUB	CW
	IRM	CIRM Rome, I	CW
12750.0	CWA	Cerrito R, URG	CW
	NIK	*USCG Boston, MA, USA*	*FAX // 8502.0 kHz* CW
	PW.	many BN stations, B	CW
	VHI 5	RAN Darwin, NT, AUS	CW
	6YX	JCG Kingston, JMC	CW
12752.0	C6N	Nassau R, BAH	CW
	XFA	Acapulco R, MEX	CW
12752.5	HZG	Dammam R, ARS	CW
12753.0	*CKN*	*CF Vancouver, BC, CAN*	*FAX // 4268.0 kHz $* CW
12753.5	OXZ 62	Lyngby R, DNK	CW
12754.5	PWZ	BN Rio de Janeiro, B	CW
12755.0	UTA	Tallinn R, ES, URS	CW
12755.5	SAB 6	Goeteborg R, S	CW
12757.0	RCV	SN Moscow, RU, URS	CW
	YQI 5	Constanta R, ROU	CW

12759.0	NDT	USN Yokosuka, J	COMB
12760.0	IRM	CIRM Rome, I	CW
	UCO	Yalta R, UK, URS	CW
	UFB	**Odessa R, UK, URS**	**0100 R tts wtsca** CW
12763.5	DAM	Norddeich R, D	CW
	LPD 76	General Pacheco R, ARG	CW
12765.0	9GX	Tema R, GHA	CW
12766.0	PPO	Olinda R, B	CW
12768.0	CBV	DGTMMM Valpar. R, CHL	CW
	DZY 7	Manila R, PHL	CW
	PCH 50	Scheveningen R, NLD	CW
12770.0	***GKS 5***	***Portishead R, G***	***scheduled; QSX 12520.0 kHz***
12772.0	ZSC 43	Cape Town R, AFS	CW
12772.5	**GYA**	**RN London, G**	**VFT: 75 Bd: 1407 foxes**
	ZSC 38	Cape Town R, AFS	CW
12774.0	TCR	TURBAN Istanbul R, TUR	CW
12775.0	XFU	Veracruz R, MEX	CW
12776.0	PPJ	Juncao R, B	CW
12777.0	*NDT*	*USN Yokosuka, J*	*FAX // 5258.0 kHz $*
12780.0	D3E 61	Luanda R, AGL	CW
	HAR	Budapest R, HNG	CW
12780.5	YUR 5	Rijeka R, YUG	CW
12781.5	OST 5	Oostende R, BEL	CW
	9MB 5	MN Georgetown, P.I., MLA	CW
12785.0	XSX	Keelung R, TAI	CW
12786.0	DZW	Manila R, PHL	CW
12788.0	JFA	Matsudo F R, J	CW
12788.5	GKD 5	Portishead R, G	CW
12790.0	GKG 5	Portishead R, G	CW
	XF. .	many PEMEX R st., MEX	CW
	XST	Qingdao R, CHN	CW
12791.5	GKH 5	Portishead R, G	CW
12792.0	CLA 31	Habana R, CUB	CW
	HZG	Dammam R, ARS	CW
12793.0	**RNO**	**SA/AAMC Moscow, RU, URS**	**0730+0800 R nx wtsca, 1830 R tts wtsca** CW
12794.0	RIT	SN Vaygach, RU, URS	CW
12795.0	OBQ 5	Iquitos R, PRU	CW
	PWZ	**BN Rio de Janeiro, B**	**2115 msg (wx)** CW
	UXN	Arkhangelsk R, RU, URS	CW
12797.0	**UDK 2**	**Murmansk R, RU, URS**	**2118+2246 R tts wtsca** CW
12799.5	PCH 51	Scheveningen R, NLD	CW
	UKA	**Vladivostok R, SE, URS**	**0059-0716 ry or R tts wtsca**
	XSZ	Dalian R, CHN	CW
12800.0	HSA 3	Bangkok R, THA	CW
12801.0	TAH	Istanbul R, TUR	CW
12802.3	XSX	Keelung R, TAI	CW
12803.0	**UDK 2**	**Murmansk R, RU, URS**	**0800 ry, 1944 R tts wtsca** CW
12804.0	PW.	many BN stations, B	CW
	XSI	Sanya R, CHN	CW
	YQI	Constanta R, ROU	CW
12805.0	PPR	Rio de Janeiro R, B	CW
12806.0	*NKW*	*USN Diego Garcia, DGA*	*FAX // 5262.0 kHz $*
	3VP 8	Sakhira R, TUN	CW
12807.8	**GYA**	**RN London, G**	**75 Bd: 24 h test**

12807.8	GYC 5	RN London, G	CW
12808.5	KPH	San Francisco R, CA, USA	CW
	VTG 7	IN Bombay, IND	CW
12810.0	DZD 3	Manila R, PHL	CW
	UJE	Moscow R, RU, URS	CW
12811.3	HZY	ARAMCO Ras Tan. R, ARS	CW
12813.0	ZPK	Asuncion R, PRG	CW
12815.0	GKF 5	Portishead R, G	CW
	OBF 4	Mollendo R, PRU	CW
	URB 2	Klaipeda R, LI, URS	CW
	XFY	Guaymas R, MEX	CW
12816.0	DZA	Mandaluyong R, PHL	CW
12817.0	S9M	Sao Tome R, STP	CW
12817.5	NDT	USN Yokosuka, J	COMB
	XSU	Yantai R, CHN	CW
	YVG	La Guayra R, VEN	CW
	9VG 26	Singapore R, SNG	CW
12818.0	OMC	Bratislava R, TCH	CW
	OMK	Komarno R, TCH	CW
	OMP 51	Prague R, TCH	CW
	SAB 63	**Goeteborg R, S**	**SITOR-A: 24 h tts; QSX 12523.5 kHz** **SITOR-B: 0500 + 1700 Swedish nx**
12820.0	UAT	Moscow R, RU, URS	CW
	VWA 1	Ramnagar Port R, IND	CW
12821.5	DZF	Bacoor R, PHL	CW
12822.0	GKA 5	Portishead R, G	CW
	XSV	Tianjin R, CHN	CW
12823.5	CTP	NATO Lisbon, POR	CW
12824.0	XFC	Cozumel R, MEX	CW
12824.2	GYU	RN Gibraltar, GIB	CW
12825.0	UFH	Petropavl.-Km. R, FE, URS	CW
12825.8	**GYU**	**RN Gibraltar, GIB**	**75 Bd: 1811-1115 foxes without ID**
12826.5	CBV	DGTMMM Valpar. R, CHL	CW
	JCS	Choshi R, J	CW
	SPH 62	Gdynia R, POL	CW
	WNU	Slidell R, LA, USA	CW
12828.0	CLJ	Habana R, CUB	CW
	UJQ	*Kiyev R, UK, URS*	*FAX 60/576: 0430 chart, 1100 + 1700 R nx (text), 1715 chart, 1815 chart Northern Hemisphere*
	'M'	Bcn. Magadan, FE, URS	CW
12829.5	XFM	Manzanillo R, MEX	CW
12830.0	**UDK 2**	**Murmansk R, RU, URS**	**1940 R tts wtsca** CW
12831.0	3BA 5	Port Louis R, MAU	CW
	9MG 3	Georgetown R, Pin. I., MLA	CW
12832.5	DAF	Norddeich R, D	CW
12833.0	SVF 5	Athens R, GRC	CW
12834.0	DZP	Novaliches R, PHL	CW
12835.4	GKB 5	Portishead R, G	CW
	UFH	Petropavl.-Km. R, FE, URS	CW
12836.0	XDA	Mexico City R, MEX	CW
12838.0	CLJ	Habana R, CUB	CW
12840.0	LZW 52	Varna R, BUL	CW
	PPJ	Juncao R, B	CW
	PPO	Olinda R, B	CW
	VTP 7	IN Vishakhapatnam, IND	CW

12840.5	**PBC 312**	**DN Goeree Island, NLD**	**75 Bd: 0457-2107 ry**
12843.0	HLO	Soul R, KOR	CW
	XFP	Chetumal R, MEX	CW
12844.5	KFS	San Francisco R, CA, USA	CW
12847.0	DZE	Mandaluyong R, PHL	CW
	WCC	Chatham R, MA, USA	CW
12847.5	JFA	Matsudo F R, J	CW
12849.0	ZSJ 5	SAN Cape Town, AFS	CW
12853.5	HKC	Buenaventura R, CLM	CW
	PCH 52	Scheveningen R, NLD	CW
12854.0	UKA	Vladivostok R, SE, URS	CW
12855.0	UBF 2	Leningrad R, RU, URS	CW
	XDA	Mexico City R, MEX	CW
12855.8	4WD 3	Hodeidah R, YEM	CW
12856.0	CBV	DGTMMM Valpar. R, CHL	CW
	XSG 7	Shanghai R, CHN	CW
12857.0	6WW	FN Dakar, SEN	CW
12858.0	DZD	Antipolo R, PHL	CW
	GKI 5	Portishead R, G	CW
12859.0	SVI 5	Athens R, GRC	CW
12860.0	UGW 2	Belomorsk R, RU, URS	CW
	4XO	Haifa R, ISR	CW
12860.5	Y5M	Rügen R, D	CW
12860.8	5RS	Toamasina R, MDG	CW
12864.0	XSW	Kaohsiung R, TAI	CW
12865.0	UQK	Riga R, LA, URS	CW
12867.0	NPO	USN Subic Bay, PHL	CW
	XYR 8	Yangon R, MYA	CW
12869.0	WNU	Slidell R, LA, USA	CW
12869.5	DZZ	Manila R, PHL	CW
12870.0	DZO	Bulacan R, PHL	CW
	LZS 34	BN Sofia, BUL	CW
	UKA	Vladivostok R, SE, URS	CW
12871.5	GKJ 5	Portishead R, G	CW
	KUQ	Pago Pago R, SMA	CW
	XSG	Shanghai R, CHN	CW
12872.0	SPE 62	Szczecin R, POL	CW
12874.0	VCS	CCG Halifax, NS, CAN	CW
12875.0	FUG	FN La Regine, F	CW
12876.0	LFJ	Rogaland R, NOR	CW
	URL	Sevastopol' R, UK, URS	CW
	VAI	CCG Vancouver, BC, CAN	CW
	XSM	Xiamen R, CHN	CW
12877.0	UJY	Kaliningrad R, RU, URS	CW
	XSQ 7	Guangzhou R, CHN	CW
12878.0	CLS	Habana F R, CUB	CW
	JCU	Choshi R, J	CW
12879.5	WSC	Tuckerton R, NJ, USA	CW
12880.0	LZW	Varna R, BUL	CW (sp 12940.0 kHz)
12880.5	SAG 6	Goeteborg R, S	CW
12883.0	UMZ	Valentin R, SE, URS	CW
12885.0	**FUO**	**FN Toulon, F**	**75 Bd: 0230 ry**
	UKA	Vladivostok R, SE, URS	CW
	9YL	North Post R, TRD	CW
12886.5	**WLO**	**Mobile R, AL, USA**	**SITOR-B: H+35 tfc list, wx**
			CW
12887.5	EAD 44	Madrid R, E	CW
12888.0	DZK	Bulacan R, PHL	CW
12889.5	NMO	USCG Honolulu, HWA	CW
	XSE	Qinhuangdao R, CHN	CW

12890.0	XSJ	Zhanjiang R, CHN	CW
12891.0	**UFN**	**Novorossiysk R, RU, URS**	**24 h R tts wtsca**
			CW
12894.0	DVM 2	Makati R, PHL	CW
12895.0	**UNM 2**	**Klaipeda R, LI, URS**	**0803 + 0934 + 1000 + 1715 R tts wtsca**
			CW
	9KK 8	Safat R, KWT	CW
12897.5	**GYA**	**RN London, G**	**75 Bd: 1826-0808 test**
12898.0	XSG	Shanghai R, CHN	CW
12898.5	CBV	DGTMMM Valpar. R, CHL	CW
	DAN	Norddeich R, D	CW
12900.0	DXF	Davao R, PHL	CW
	XVG 8	Hai Phong R, VTN	CW
12901.0	L2E	Buenos Aires R, ARG	CW
	L2S	Mar del Plata R, ARG	CW
	L2X	Comod. Rivadavia R, ARG	CW
12901.5	**URD**	**Leningrad R, RU, URS**	**0708-1408 ry or R tts wtsca**
12903.0	ZPK	Asuncion R, PRG	CW
	'RBSL'	**IN Bombay, IND**	**1431-0749 ry or msgs (4fgs) or wx**
12904.5	KLC	Galveston R, TX, USA	CW
12905.9	**GYA**	**RN London, G**	**75 Bd: 0435-1947 test**
12906.2	DZJ	Bulacan R, PHL	CW
12907.0	KLB	Seattle R, WA, USA	CW
12907.5	VIX 5	RAN Canberra, ACT, AUS	CW
	YUR 6	Rijeka R, YUG	CW
12909.0	**Y5M**	**Rügen R, D**	**SITOR-A: 1307 + 1507 tts** **SITOR-B: 1000 G nx**
			CW
12910.0	CLY	Habana R, CUB	CW
	UAT	Moscow R, RU, URS	CW
12912.0	**UHK**	**Batumi R, GE, URS**	**1339 ry, R tts wtsca**
	XSH	Basuo R, CHN	CW
12912.6	FFL 6	Saint Lys R, F	CW
12916.5	HLF	Soul R, KOR	CW
	OXZ 6	Lyngby R, DNK	CW
12917.0	KLB	Seattle R, WA, USA	CW
12919.0	CLS	Habana F R, CUB	CW
12921.0	ZPK	Asuncion R, PRG	CW
12922.0	**BPK 32**	**Beijing Meteo, CHN**	**0050 + 0123 + 0510 + 0750 wx**
12923.0	HLW 2	Soul R, KOR	CW
12925.0	UQA 4	Murmansk R, RU, URS	CW
	9KK 20	Safat R, KWT	CW
12925.5	WCC	Chatham R, MA, USA	CW
	4PB	Colombo R, SLK	CW
12928.0	SPH 63	Gdynia R, POL	CW
12930.0	DYP	Cebu R, PHL	CW
	UAT	**Moscow R, RU, URS**	**SITOR-A: 0800 + 1000 R nx wtsca, 1500 F nx, 1900 R nx wtsca**
12931.0	5BA	Nicosia R, CYP	CW
12933.0	UKA	Vladivostok R, SE, URS	CW
12934.5	EDZ 5	Madrid R, E	CW
12935.0	HLG	Soul R, KOR	CW
	UHK	Batumi R, GE, URS	CW
12935.5	5OZ 23	Port Harcourt R, NIG	CW
12936.0	DZN	Navotas R, PHL	CW
12938.0	OBC 3	Callao R, PRU	CW
12939.0	SPE 61	Szczecin R, POL	CW

12940.0	LZW 53	Varna R, BUL	CW
12942.0	JNA	JN Tokyo, J	CW
	RKLM	Arkhangelsk R, RU, URS	CW
	SVG 5	Athens R, GRC	CW
	UJY	**Kaliningrad R, RU, URS**	**0436 R tts wtsca** CW
12943.5	CUL 20	Lisbon R, POR	CW
	ZLP 5	RNZN Waiouru, NZL	CW
	9MG 3	Georgetown R, Pin. I., MLA	CW
12947.0	**UFB**	**Odessa R, UK, URS**	**0520-2020 R tts wtsca** CW
12948.0	DYV	Iloilo R, PHL	CW
	JJF	JN Tokyo, J	CW
12950.0	UFB	Odessa R, UK, URS	CW
12952.5	VIS 5	Sydney R, NSW, AUS	CW
12954.0	CLS	Habana F R, CUB	CW
	DZU	Pasig R, PHL	CW
	LZL 5	Bourgas R, BUL	CW
	XSG 28	Shanghai R, CHN	CW
12955.0	UFL	Vladivostok R, SE, URS	CW
12957.0	CBV	DGTMMM Valpar. R, CHL	CW
	PWN	BN Natal, B	CW
12958.3	**CCS**	**CN Santiago, CHL**	**2249 ry**
12958.5	PPO	Olinda R, B	CW
12960.0	CCS	CN Santiago, CHL	CW
12961.5	LFI	Rogaland R, NOR	CW
	WCC	Chatham R, MA, USA	CW
12963.0	HAR	Budapest R, HNG	CW
12963.5	ZHH	Jamestown R, SHN	CW
12965.0	UJO 5	Izmail R, UK, URS	CW
12966.0	NPO	USN Subic Bay, PHL	COMB
	PWZ	BN Rio de Janeiro, B	CW
	VWB	Bombay R, IND	CW
12966.3	A7D	Doha R, QAT	CW
12967.0	UJE	Moscow R, RU, URS	CW
12969.0	XSV	Tianjin R, CHN	CW
12970.0	URL	Sevastopol' R, UK, URS	CW
12970.5	PKB	Belawan R, INS	CW
	PKX	Jakarta R, INS	CW
	PKY 4	Sorong R, INS	CW
	SUH 4	Alexandria R, EGY	CW
12972.0	DZH	Manila R, PHL	CW
	HAR	Budapest R, HNG	CW
12973.0	PPR	Rio de Janeiro R, B	CW
	UJY	**Kaliningrad R, RU, URS**	**0215+0745-2245 ry or R msg wtsca; QSX 12631.5 kHz** CW
	XSQ	Guangzhou R, CHN	CW
12975.0	IQX	Trieste R, I	CW
		UNID USN station (1089)	*FAX 120/576: 0235 chart, not // NKW*
12977.0	URL	Sevastopol' R, UK, URS	CW
12978.0	DYD 2	Cebu R, PHL	CW
	ICB	Genova R, I	CW
12979.5	PPL	Belem R, B	CW
	VIS 49	Sydney R, NSW, AUS	CW
12980.0	PK. ..	many R stations, INS	CW
	UAT	**Moscow R, RU, URS**	**SITOR-A: 0630+2300 R nx wtsca**
12982.0	VHI	RAN Darwin TS, NT, AUS	CW

12984.0	DZM	Bulacan R, PHL	CW
	ZPK	Asuncion R, PRG	CW
	4XZ	IN Haifa, ISR	CW
12987.0	YKM 5	SCOT Baniyas Port R, SYR	CW
12988.5	LPD 88	General Pacheco R, ARG	CW
	3BM 5	Port Louis R, MAU	CW
12990.0	DZJ	Bulacan R, PHL	CW
	UJQ	**Kiyev R, UK, URS**	**0805-0844 + 1518-1609 R ry or tts wtsca**
	UKK 3	Nakhodka R, SE, URS	CW
12992.0	WLO	Mobile R, AL, USA	CW
12993.0	**UAT**	**Moscow R, RU, URS**	**0805-2130 R tts wtsca**
	URL	Sevastopol' R, UK, URS	CW
12994.0	VIP 4	Perth R, WA, AUS	CW
12995.0	ROT	SN Moscow, RU, URS	CW
12995.3	ELZ	Cape Palmas R, LBR	CW
12996.0	IAR 33	Rome R, I	CW
12997.0	SXA 37	GN Piraeus, GRC	CW
	XSQ	Guangzhou R, CHN	CW
12999.5	CTU 2	PN Lisbon, POR	CW
13000.0	LZW 53	Varna R, BUL	CW (sp 12940.0 kHz)
	UBE 2	Petropavl.-Km. R, FE, URS	CW
13002.0	DXD 9	Davao R, PHL	CW
	KPH	San Francisco R, CA, USA	CW
13002.5	**CTU 2**	**PN Lisbon, POR**	**0000 + 0800 + 1800 + 2000 wx + navigational warnings**
13005.5	HLW	Soul R, KOR	CW
13006.5	GKK 5	Portishead R, G	CW
	XFE	Ensenada R, MEX	CW
13007.0	OMP 5	Prague R, TCH	CW
13008.0	DZI	Bacoor R, PHL	CW
	DZJ 7	Makati R, PHL	CW
	JOR	Nagasaki R, J	CW
13010.0	UQA 4	Murmansk R, RU, URS	CW
13011.0	AQP 6	PN Karachi, PAK	CW
	IAR 23	Rome R, I	CW
	WNU	Slidell R, LA, USA	CW
	ZPK	Asuncion R, PRG	CW
13014.0	DYM	Cebu R, PHL	CW
13014.5	XDA	Mexico City R, MEX	CW
13015.0	**URD**	**Leningrad R, RU, URS**	**SITOR-A: 1019 R tts wtsca**
13015.5	IAR 3	Rome R, I	CW
	J..	many R stations, J	CW
	OB. .	many R stations, PRU	CW
13019.8	GKC 5	Portishead R, G	CW
13020.0	DYE 9	Cebu R, PHL	CW
13020.4	VPS 60	Victoria Island R, HKG	CW
13021.0	**NMF**	**USCG Boston, MA, USA**	**SITOR-B: 0200 + 1700 wx, ice report, schedule**
13022.0	SPE 63	Szczecin R, POL	CW
13023.0	D3E 62	Luanda R, AGL	CW
13024.0	A7D	Doha R, QAT	CW
	S3E	Khulna R, BGD	CW
13024.5	ASK	Karachi R, PAK	CW
13024.9	WLO	Mobile R, AL, USA	CW
13026.5	UAI 3	Nakhodka R, SE, URS	CW
13027.5	DAL	Norddeich R, D	CW
13028.0	ZSD 46	Durban R, AFS	CW
13029.0	SVB 5	Athens R, GRC	CW
	UQB	Kholmsk R, FE, URS	CW

13030.0	**URD**	**Leningrad R, RU, URS**	**1020 + 1653 + 1905 + 2037 R tts wtsca** CW
13031.0	VRN 60	Victoria Island R, HKG	CW
13031.2	FUF	FN Fort de France, MRT	CW
13032.0	DUN	PN Manila, PHL	CW
13033.5	WCC	Chatham R, MA, USA	CW
13035.0	UFH	Petropavl.-Km. R, FE, URS	CW
13038.0	DZO 9	Manila R, PHL	CW
	KLC	Galveston R, TX, USA	CW
	OXZ 61	Lyngby R, DNK	CW
13040.0	UFN	Novorossiysk R, RU, URS	CW
13041.0	UFB	Odessa R, UK, URS	CW
13042.0	P2M	Port Moresby R, PNG	CW
	P2R	Rabaul R, PNG	CW
13042.5	C9C 7	MN Maputo TS, MOZ	CW
	FUV	FN Jibuti, DJI	CW
	PJC	Willemst. R, Curacao, ATN	CW
	XVS 9	Ho Chi Minh Ville R, VTN	CW
	9LL	Freetown R, SRL	CW
13044.0	DZN 4	Manila R, PHL	CW
	VPS 61	Victoria Island R, HKG	CW
13045.0	ROT	SN Moscow, RU, URS	CW
13046.0	PZN 4	Paramaribo R, SUR	CW
13047.0	SVA 5	Athens R, GRC	CW
	UAI 3	Nakhodka R, SE, URS	CW
13049.5	HPP	Panama R, PNR	CW
13050.0	**UDK 2**	**Murmansk R, RU, URS**	**0936-2140 R tts wtsca** CW
13051.5	ASK	Karachi R, PAK	CW
	WPD	Tampa R, FL, USA	CW
	4XO	Haifa R, ISR	CW
13052.4	**'98 DDX'**	**SN Madrid, E**	**75 Bd: 1320 encrypted msgs**
13054.0	JDC	Choshi R, J	CW
	UJY	**Kaliningrad R, RU, URS**	**0809 + 1413-2215 ry or R tts wtsca** CW
	XSQ	Guangzhou R, CHN	CW
13055.0	UJQ 7	Kiyev R, UK, URS	CW
13056.0	C9L 2	Maputo R, MOZ	CW
	C9L 6	Mocambique R, MOZ	CW
	EDG 4	Madrid R, E	CW
	FFT 21	**Saint Lys R, F**	**(hx 4352.0 kHz)**
	S3D	Chittagong R, BGD	CW
13057.0	LSA	Boca R, ARG	CW
	OMC	Bratislava R, TCH	CW
	OMK	Komarno R, TCH	CW
13058.0	TEC	Puntarenas R, CTR	CW
13059.0	EBA	SN Madrid, E	CW
13060.0	SUP	Port Said R, EGY	CW
	UFJ	Rostov-na-Donu R, RU, URS	CW
13060.5	TUA 5	Abidjan R, CTI	CW
	7OA	Aden R, YEM	CW
13062.0	CLA 32	Habana R, CUB	CW
13062.5	Y5M	Rügen R, D	CW
13063.0	JDB	Nagasaki R, J	CW
13063.5	LSA	Boca R, ARG	CW
	WSC	Tuckerton R, NJ, USA	CW
13065.0	EAD 4	Madrid R, E	CW
	LPC 50	Ushuaia R, ARG	CW

13065.0	RKDF	Pärnu R, ES, URS	CW
	5ZF 3	Mombasa R, KEN	CW
	6YI	Kingston R, JMC	CW
13065.5	5OW 13	Lagos R, NIG	CW
13067.0	CTH 3	PN Horta, AZR	CW
	OST 52	Oostende R, BEL	CW
13067.5	UAI 3	Nakhodka R, SE, URS	CW
13068.0	DYE 6	Cebu R, PHL	CW
13069.0	TFA	Reykjavik R, ISL	CW
	TJC 8	Douala R, CME	CW
13069.5	EQ.	many R stations, IRN	CW
	JOS	Nagasaki R, J	CW
13070.0	**CTH 3**	**PN Horta, AZR**	**75 Bd: 0930 wx**
	UDH	Riga R, LA, URS	CW
	3AC 13	Monte Carlo R, MCO	CW
13071.5		coast stations, channel 1	QSX 12491.5 kHz
	DCN	*Norddeich R, D*	*scheduled*
	KFS	*San Francisco R, CA, USA*	*scheduled*
	S9M	*Sao Tome R, STP*	*scheduled*
	UMV	Murmansk R, RU, URS	SITOR-A: 1439+1903+2000 R tts wtsca CW
	9VG 80	Singapore R, SNG	SITOR-A: 24 h tts SITOR-B: 0630+2030 tfc list CW
13072.0		coast stations, channel 2	QSX 12492.0 kHz
	GKE 5	Portishead R, G	SITOR-A: 24 h tts SITOR-B: 0930+1030 wx, 1700 tfc list, 2130 wx CW
	URD	*Leningrad R, RU, URS*	*scheduled*
	ZLW	*Wellington R, NZL*	*scheduled*
13072.5		coast stations, channel 3	QSX 12492.5 kHz
	KFS	*San Francisco R, CA, USA*	*scheduled*
	OST 56	*Oostende R, BEL*	*scheduled*
	XSV	*Tianjin R, CHN*	*scheduled*
13073.0		coast stations, channel 4	QSX 12493.0 kHz
	DCM	*Norddeich R, D*	*scheduled*
	VRT	*Hamilton R, BER*	*scheduled*
13073.5		coast stations, channel 5	QSX 12493.5 kHz
	EHY	*Madrid R, E*	*scheduled*
	SPB 61	Szczecin R, POL	SITOR-A: 0229-1902 tts SITOR-B: 1400+2200 tfc list CW
	WLO	Mobile R, AL, USA	SITOR-A: 0941+1138 tts CW
	5RS	*Toamasina R, MDG*	*scheduled*
13074.0		coast stations, channel 6	QSX 12494.0 kHz
	SAB 606	Goeteborg R, S	SITOR-A: 24 h tts
	UNM 2	*Klaipeda R, LI, URS*	*scheduled*
	VIP 34	Perth R, WA, AUS	SITOR-A: 0956-1210+1901-2130 tts CW
	WSC	Tuckerton R, NJ, USA	CW
13074.5		coast stations, channel 7	QSX 12494.5 kHz
	FFT 61	Saint Lys R, F	SITOR-A: 0433-2222 tts SITOR-B: 0100+0600+0800+0900+1000+1500+1600+1800+2000+2100 tfc list or wx CW

13074.5	*UHK*	*Batumi R, GE, URS*	*scheduled*
	WAH	*Saint Thomas R, VIR*	*scheduled*
	XSG	*Shanghai R, CHN*	*scheduled*
13075.0		coast stations, channel 8	QSX 12495.0 kHz
	HPP	Panama R, PNR	SITOR-A: 1048+1939-0432 tts SITOR-B: 0300+1700+1900+2300 schedule, tfc list CW
	LGJ 2	*Rogaland R, NOR*	*scheduled*
13075.5		coast stations, channel 9	QSX 12495.5 kHz
	CBV	DGTMMM Valparaiso R, CHL	SITOR-A: 0320+0431+0444 tts CW
	KLC	*Galveston R, TX, USA*	*scheduled*
	UFB	*Odessa R, UK, URS*	*scheduled*
	9MG 16	*Georgetown R, Pin. I., MLA*	*scheduled*
13076.0		coast stations, channel 10	QSX 12496.0 kHz
	HZG	*Dammam R, ARS*	*scheduled*
	OXZ	*Lyngby R, DNK*	*scheduled*
	UFN	Novorossiysk R, RU, URS	CW
	VIP 40	Perth R, WA, AUS	SITOR-A: 0842-2031 tts CW
13076.5		coast stations, channel 11	QSX 12496.5 kHz
	CBV	*DGTMMM Valpar. R, CHL*	*scheduled*
	UBN	Zhdanov R, UK, URS	SITOR-A: 0635-1426 R tts wtsca SITOR-B: 0630+1745 R tts wtsca CW
	WLO	*Mobile R, AL, USA*	*scheduled*
	XSQ	*Guangzhou R, CHN*	*scheduled*
	3AC 23	*Monte Carlo R, MCO*	*scheduled*
13077.0		coast stations, channel 12	QSX 12497.0 kHz
	NRV	USCG Apra Harbour, GUM	SITOR-B: 0000+0400+0900 wx
	PCH 55	Scheveningen R, NLD	SITOR-A: 24 h tts CW
13077.5		coast stations, channel 13	QSX 12497.5 kHz
	KPH	*San Francisco R, CA, USA*	*scheduled* CW
	VPS 63	Victoria Island R, HKG	SITOR-A: 0150+0909-1126+2003 tts SITOR-B: 1100 tfc list CW
	WCC	*Chatham R, MA, USA*	*scheduled*
13078.0		coast stations, channel 14	QSX 12498.0 kHz
	FFT 62	*Saint Lys R, F*	*scheduled*
	KPH	*San Francisco R, CA, USA*	*scheduled*
	LZW	*Varna R, BUL*	*scheduled*
	UDK 2	*Murmansk R, RU, URS*	*scheduled*
	UFM 3	*Nevelsk R, FE, URS*	*scheduled*
	VIS 67	Sydney R, NSW, AUS	SITOR-A: 24 h tts CW
	WCC	*Chatham R, MA, USA*	*scheduled*
13078.5		coast stations, channel 15	QSX 12498.5 kHz
	DCL	Norddeich R, D	SITOR-A: 1021+1110 tts
	VWM	*Madras R, IND*	*scheduled*
	WLO	*Mobile R, AL, USA*	*scheduled* CW
	9PA	*Banana R, ZAI*	*scheduled*
13079.0		coast stations, channel 16	QSX 12499.0 kHz
	COB 36	*Flota Cubana F R, CUB*	*scheduled*

13079.0	OST 57	Oostende R, BEL	SITOR-A: 24 h tts
			CW
	UJQ	*Kiyev R, UK, URS*	*scheduled*
13079.5		coast stations, channel 17	QSX 12499.5 kHz
	KLC	*Galveston R, TX, USA*	*scheduled*
	SVS 5	*Athens R, GRC*	*scheduled*
	UQK	*Riga R, LA, URS*	*scheduled*
13080.0		coast stations, channel 18	QSX 12500.0 kHz
	HEC 13	Berne R, SUI	SITOR-A: 24 h tts
			CW
	HPP	*Panama R, PNR*	*scheduled*
	UKA	Vladivostok R, SE, URS	0010-1427 R ry or tts wtsca
	9MG 16	*Georgetown R, Pin. I., MLA*	*scheduled*
13080.5		coast stations, channel 19	QSX 12500.5 kHz
	UFH	*Petropavl.-Km. R, FE, URS*	*scheduled*
	WNU	*Slidell R, LA, USA*	*scheduled*
13081.0		coast stations, channel 20	QSX 12501.0 kHz
	LGJ 3	Rogaland R, NOR	SITOR-A: 0417-2231 tts
			SITOR-B: 0700 N nx, 1218 tts, 1700+1900 N nx
			CW
	NMC	*USCG S. Franc., CA, USA*	*scheduled*
	NMF	*USCG Boston, MA, USA*	*scheduled*
13081.5		coast stations, channel 21	QSX 12501.5 kHz
	FFT 63	*Saint Lys R, F*	*scheduled*
	KPH	*San Francisco R, CA, USA*	*scheduled*
	WCC	Chatham R, MA, USA	SITOR-A: 24 h tts
			SITOR-B: 0000+1800 tfc list, wx
			CW
13082.0		coast stations, channel 22	QSX 12502.0 kHz
	EHY	Madrid R, E	SITOR-A: 24 h tts
			SITOR-B: 0900+1100+1900 tfc list
			CW
	KLC	*Galveston R, TX, USA*	*scheduled*
	KPH	*San Francisco R, CA, USA*	*scheduled*
	8Q2	*Male R, MLD*	*scheduled*
	9VG 94	Singapore R, SNG	SITOR-A: 2346-1126 tts
			CW
13082.5		coast stations, channel 23	QSX 12502.5 kHz
	SVT 5	*Athens R, GRC*	*scheduled*
	UDH	Riga R, LA, URS	SITOR-A: 24 h R tts wtsca
			CW
13083.0		coast stations, channel 24	QSX 12503.0 kHz
	A7D	*Doha R, QAT*	*scheduled*
	NMF	*USCG Boston, MA, USA*	*scheduled*
	SAB 624	Goeteborg R, S	SITOR-A: 24 h tts
	VPS 64	Victoria Island R, HKG	SITOR-A: 0804-1030 tts
			CW
13083.5		coast stations, channel 25	QSX 12503.5 kHz
	UFL	Vladivostok R, SE, URS	0158-1032 R tts wtsca
			CW
	WLO	Mobile R, AL, USA	SITOR-A: 1022+1406-0511 tts
			SITOR-B: H+35 tfc list, wx
			CW
13084.0		coast stations, channel 26	QSX 12504.0 kHz
	CLA	*Habana R, CUB*	*scheduled*

13084.0	OXZ	Lyngby R, DNK	SITOR-A: 0338-2226 tts SITOR-B: 1530 Danish nx, 2330 tfc list CW
	Y5M	*Rügen R, D*	*scheduled*
13084.5		coast stations, channel 27	QSX 12504.5 kHz
	NMN	USCG Portsmouth, VA, USA	SITOR-A: 0946-1938-0428 tts CW
	NMO	*USCG Honolulu, HWA*	*scheduled*
	UQB	*Kholmsk R, FE, URS*	*scheduled*
13085.0		coast stations, channel 28	QSX 12505.0 kHz
	GKP 5	Portishead R, G	SITOR-A: 24 h tts CW
	KFS	*San Francisco R, CA, USA*	*scheduled*
13085.5		coast stations, channel 29	QSX 12505.5 kHz
	WLO	*Mobile R, AL, USA*	*scheduled*
13086.0		coast stations, channel 30	QSX 12506.0 kHz
	DCF	*Norddeich R, D*	*scheduled*
	IDR 5	IN Rome, I	CW
	PPR	Rio de Janeiro R, B	SITOR-A: 1937-0754 tts CW
	UKA	Vladivostok R, SE, URS	0019-1123 R tts wtsca
13086.5		coast stations, channel 31	QSX 12506.5 kHz
	A9M	*Hamala R, BHR*	*scheduled* CW
13087.0		coast stations, channel 32	QSX 12507.0 kHz
	CUL	*Lisbon R, POR*	*scheduled*
13087.5		coast stations, channel 33	QSX 12507.5 kHz
	HIA	Sto. Domingo Pilot R, DOM	CW
	HKB	Barranquilla R, CLM	CW
	OFA	Helsinki R, FNL	SITOR-B: 1715 tfc list, Finnish nx
13088.0		coast stations, channel 34	QSX 12508.0 kHz
	A7D	*Doha R, QAT*	*scheduled*
	UKX	Nakhodka R, SE, URS	0916 R tts wtsca
	3AC 33	*Monte Carlo R, MCO*	*scheduled*
13088.5		coast stations, channel 35	QSX 12508.5 kHz
	PCH 56	Scheveningen R, NLD	SITOR-A: 24 h tts CW
13089.0		coast stations, channel 36	QSX 12509.0 kHz
	CLA	*Habana R, CUB*	*scheduled*
	SPB 62	Szczecin R, POL	SITOR-A: 1022+1319+1832+2200 tts SITOR-B: 1800 tfc list CW
	UAT	Moscow R, RU, URS	SITOR-A: 24 h R tts wtsca CW
	UBE 2	*Petropavl.-Km. R, FE, URS*	*scheduled*
	9VG 95	Singapore R, SNG	SITOR-A: 0008+0552-1534 tts CW
13089.5		coast stations, channel 37	QSX 12509.5 kHz
	IAR	*Rome R, I*	*scheduled*
	UFN	Novorossiysk R, RU, URS	SITOR-A: 24 h R tts wtsca CW
	YUW	*Bar R, YUG*	*scheduled*
13090.0		coast stations, channel 38	QSX 12510.0 kHz
	KPH	*San Francisco R, CA, USA*	*scheduled*
	SPA 62	Gdynia R, POL	SITOR-A: 0946-2025 tts SITOR-B: 1400 tfc list CW
	UQB	Kholmsk R, FE, URS	1103 R tts wtsca

13090.0	*UXN*	*Arkhangelsk R, RU, URS*	*scheduled*
	WCC	Chatham R, MA, USA	SITOR-A: 1023+1730-2330 tts SITOR-B: 0500+1245+1700 tfc list, wx CW
13090.5		coast stations, channel 39	QSX 12510.5 kHz
	UPB	*Provideniya R, FE, URS*	*scheduled*
	VCS	CCG Halifax, NS, CAN	SITOR-A: 1725+1938 tts, 2230 wx
13091.0		coast stations, channel 40	QSX 12511.0 kHz
	EHY	*Madrid R, E*	*scheduled*
	UCO	*Yalta R, UK, URS*	*scheduled*
	WLO	Mobile R, AL, USA	SITOR-A: 1024 tts CW
13091.5		coast stations, channel 41	QSX 12511.5 kHz
	IAR	*Rome R, I*	*scheduled*
	J2A	*Jibuti R, DJI*	*scheduled*
	UAT	Moscow R, RU, URS	SITOR-A: 24 h R tts wtsca CW
	VAI	*CCG Vancouver, BC, CAN*	*scheduled*
13092.0		coast stations, channel 42	QSX 12512.0 kHz
	KPH	*San Francisco R, CA, USA*	*scheduled*
	UMV	*Murmansk R, RU, URS*	*scheduled*
	Y5M	Rügen R, D	SITOR-A: 24 h tts CW
13092.5		coast stations, channel 43	QSX 12512.5 kHz
	HEC 23	Berne R, SUI	SITOR-A: 1937 tts CW
	UAH	Tallinn R, ES, URS	SITOR-A: 1115+1318+1859 R tts wtsca SITOR-B: 1112 R tts wtsca CW
13093.0		coast stations, channel 44	QSX 12513.0 kHz
	ZSC 63	Cape Town R, AFS	SITOR-A: 1858+2040 tts SITOR-B: 1700+1730 wx CW
13093.5		coast stations, channel 45	QSX 12513.5 kHz
	LSD 836	*Buenos Aires R, ARG*	*scheduled*
	OXZ	Lyngby R, DNK	SITOR-A: 24 h tts SITOR-B: 0030 Danish nx, 0730 tfc list, 0830 Danish nx, 1215 tfc list, 1530+1630 Danish nx, 1730 tfc list CW
	YUR	*Rijeka R, YUG*	*scheduled*
13094.0		coast stations, channel 46	QSX 12514.0 kHz
	LSD 836	*Buenos Aires R, ARG*	*scheduled*
	Y5M	*Rügen R, D*	*scheduled*
13094.5		coast stations, channel 47	QSX 12514.5 kHz
	IAR	*Rome R, I*	*scheduled*
	KFS	*San Francisco R, CA, USA*	*scheduled*
	LSD 836	*Buenos Aires R, ARG*	*scheduled*
	UGH 2	*Juzno R, FE, URS*	*scheduled*
13095.0		coast stations, channel 48	QSX 12515.0 kHz
	GKY 5	Portishead R, G	SITOR-A: 0428-2040 tts CW
	KLC	*Galveston R, TX, USA*	*scheduled*
	URB 2	Klaipeda R, LI, URS	SITOR-A: 0922 R tts wtsca CW

13095.5		coast stations, channel 49	QSX 12515.5 kHz
	HEC 33	*Berne R, SUI*	*scheduled*
	SVU 5	Athens R, GRC	SITOR-A: 0814+2115 tts SITOR-B: 1300+2100 Greek nx CW
13096.0		coast stations, channel 50	QSX 12516.0 kHz
	LZW	Varna R, BUL	0812 tts SITOR-A: 0628+0922+1502+1950 tts CW
	WLO	Mobile R, AL, USA	SITOR-A: 0427+2225 tts CW
	Y5M	*Rügen R, D*	*scheduled*
13096.5		coast stations, channel 51	QSX 12516.5 kHz
	IAR	*Rome R, I*	*scheduled*
	YUS	*Split R, YUG*	*scheduled*
13097.0		coast stations, channel 52	QSX 12517.0 kHz
	LGJ 4	Rogaland R, NOR	SITOR-A: 24 h tts SITOR-B: 0700 N nx; 1200+1600+1700 tfc list, N nx; 1900 N nx; 2000 tfc list CW
13097.5		coast stations, channel 53	QSX 12517.5 kHz
	FFT 64	Saint Lys R, F	SITOR-A: 24 h tts CW
13098.0		coast stations, channel 54	QSX 12518.0 kHz
	IAR	*Rome R, I*	*scheduled*
	WLO	Mobile R, AL, USA	SITOR-A: 1935-0515 tts CW
13098.5		coast stations, channel 55	QSX 12518.5 kHz
	TAH	Istanbul R, TUR	SITOR-A: 1027 tts
13099.0		coast stations, channel 56	QSX 12519.0 kHz
	GKQ 5	Portishead R, G	SITOR-A: 24 h tts CW
13099.5		coast stations, channel 57	QSX 12519.5 kHz
	UXN	Arkhangelsk R, RU, URS	SITOR-A: 0528-1316 R tts wtsca SITOR-B: 0515+0940+1306+2007 R tts wtsca CW
	WNU	Slidell R, LA, USA	SITOR-B: 2215 wx
	YUR	*Rijeka R, YUG*	*scheduled*
13100.0	WORLDWIDE	COAST STATIONS DSC FREQ.	
	TIM	Limon R, CTR	CW
13100.5	WORLDWIDE	COAST STATIONS DSC FREQ.	
13100.8		coast stations, ch 1201	SSB QSX 12330.0 kHz
	A7D	Doha R, QAT	
	DZJ	Bulacan R, PHL	
	DZZ	Manila R, PHL	
	EHY	Madrid R, E	
	GKT 51	Portishead R, G	
	KMI	Dixon R, CA, USA	
	PKB	Belawan R, INS	
	PKF	Ujung Pandang R, INS	
	UAT	Moscow R, RU, URS	
	UFL	Vladivostok R, SE, URS	
	VFF	CCG Iqaluit, NWT, CAN	
	WAH	Saint Thomas R, VIR	
	XSU	Yantai R, CHN	
	5BA 52	Nicosia R, CYP	
13101.0	EQL	Anzali R, IRN	CW

13101.0	EQO	Nowshahr R, IRN	CW	
	ODR 4	Beirut R, LBN	CW	
	TRA	Libreville R, GAB	CW	
13103.9		coast stations, ch 1202	SSB	QSX 12333.1 kHz
	CBM	DGTMMM Magall. R, CHL		
	CBM 9	ETAL Punta Arenas R, CHL		
	CBO	DGTMMM P. Corona R, CHL		
	CBV	DGTMMM Valpar. R, CHL		
	GKT 52	Portishead R, G		
	HAR	Budapest R, HNG		
	HEB 13	Berne R, SUI		
	HZG	Dammam R, ARS		
	KMI	Dixon R, CA, USA		
	SVN 5	Athens R, GRC		
	S3D	Chittagong R, BGD		
	WAH	Saint Thomas R, VIR		
	WFN	Jeffersonville R, IN, USA		
	WGK	Saint Louis R, MO, USA		
	Y5M	Rügen R, D		
	3DP	Suva R, FJI		
	9GA	Takoradi R, GHA		
13107.0		coast stations, ch 1203	SSB	QSX 12336.2 kHz
	CUL	Lisbon R, POR		
	DZD 4	Manila R, PHL		
	D3E	Luanda R, AGL		
	HKB	Barranquilla R, CLM		
	HKC	Buenaventura R, CLM		
	J5M	Bissau R, GNB		
	KMI	Dixon R, CA, USA		
	LFL 30	Rogaland R, NOR		
	OXZ	Lyngby R, DNK		
	PKT	Dili R, INS		
	SAG	Goeteborg R, S		
	VIS	Sydney R, NSW, AUS		
	VIT	Townsville R, QLD, AUS		
	WOO	Ocean Gate R, NJ, USA		
	XSG	Shanghai R, CHN		
	5AT	Tripoli R, LBY		
13110.1		coast stations, ch 1204	SSB	QSX 12339.3 kHz
	FUB	FN Paris, F		
	HPP 20	Panama R, PNR		
	LFL 31	Rogaland R, NOR		
	SVN 5	Athens R, GRC		
	S9M	Sao Tome R, STP		
	URD	Leningrad R, RU, URS		
	Y5M	Rügen R, D		
	4XO	Haifa R, ISR		
13113.2		coast stations, ch 1205	SSB	QSX 12342.4 kHz
	DAP	Norddeich R, D		
	FJP 24	Noumea R, NCL		
	ICB	Genova R, I		
	LFL 32	Rogaland R, NOR		
	N..	many USCG stations		
	S3D	Chittagong R, BGD		
	TUA	Abidjan R, CTI		
	UDE	Odessa R, UK, URS		
	UFA	Batumi R, GE, URS		
	UKB	Riga R, LA, URS		
	UNM 2	Klaipeda R, LI, URS		
	YKM 7	Al Ladhiqiyah R, SYR		

13116.3		coast stations, ch 1206	SSB	QSX 12345.5 kHz
	GKT 56	Portishead R, G		
	IAR	Rome R, I		
	OBB 4	Ilo R, PRU		
	OBT 2	Talara R, PRU		
	OBZ 3	Chimbote R, PRU		
	OHG 2	Helsinki R, FNL		
	TAM	Mersin R, TUR		
	TFA	Reykjavik R, ISL		
	WOM	Pennsuco R, FL, USA		
	XSV	Tianjin R, CHN		
	Y5M	Rügen R, D		
	ZAD	Durres R, ALB		
	5RS	Toamasina R, MDG		
13119.4		coast stations, ch 1207	SSB	QSX 12348.6 kHz
	D4A	Mindelo R, S. Vicente, CPV		
	HCG	Guayaquil R, EQA		
	JBO	Tokyo R, J		
	OSU 51	Oostende R, BEL		
	PCG 52	Scheveningen R, NLD		
	PJC	Willemst. R, Curacao, ATN		
	PZN	Paramaribo R, SUR		
	SVN 5	Athens R, GRC		
	UMN	Murmansk R, RU, URS		
	VAI	CCG Vancouver, BC, CAN		
	XSQ	Guangzhou R, CHN		
	YUW	Bar R, YUG		
	4XO	Haifa R, ISR		
	7TA 24	El Djaza'ir R, ALG		
	7TF	Skikda R, ALG		
13122.5		coast stations, ch 1208	SSB	QSX 12351.7 kHz
	DAK	Norddeich R, D		
	HAR	Budapest R, HNG		
	JBO	Tokyo R, J		
	P.. ...	many R stations, B		
	S3D	Chittagong R, BGD		
	TFA	Reykjavik R, ISL		
	WOM	Pennsuco R, FL, USA		
	ZXA 4	Tedut R, B		
	ZXF 3	Bavit R, B		
	ZZQ 8	Denor R, B		
	5BA 54	Nicosia R, CYP		
13125.6		coast stations, ch 1209	SSB	QSX 12354.8 kHz
	A9M	Hamala R, BHR		
	OBF 4	Mollendo R, PRU		
	OHG 2	Helsinki R, FNL		
	PKM	Bitung R, INS		
	PKP	Dumai R, INS		
	PPL	Belem R, B		
	SPC 63	Gdynia R, POL		
	UDN	Novorossiysk R, RU, URS		
	UGE	Arkhangelsk R, RU, URS		
	WOM	Pennsuco R, FL, USA		
	XDA	Mexico City R, MEX		
	XF./.	many PEMEX/R st., MEX		
	YVG	La Guayra R, VEN		
	ZLW	Wellington R, NZL		
	ZSC 27	Cape Town R, AFS		
	ZSV 33	Walvis Bay R, NMB		

13128.7		coast stations, ch 1210	SSB	QSX 12357.9 kHz
	CWF	Punta Carretas R, URG		
	EHY	Madrid R, E		
	HEB 43	Berne R, SUI		
	J2A	Jibuti R, DJI		
	LFL 33	Rogaland R, NOR		
	OXZ	Lyngby R, DNK		
	PKE	Amboina R, INS		
	PKX	Jakarta R, INS		
	SAG	Goeteborg R, S		
	UBE 4	Petropavl.-Km. R, FE, URS		
	VWB	Bombay R, IND		
	WOO	Ocean Gate R, NJ, USA		
13131.8		coast stations, ch 1211	SSB	QSX 12361.0 kHz
	CBV	DGTMMM Valpar. R, CHL		
	CBV 3	DGTMMM Hanga R. R, PAQ		
	COB 34	Flota Atunera F R, CUB		
	COB 36	Flota Cubana F R, CUB		
	ICB	Genova R, I		
	LFL 34	Rogaland R, NOR		
	OXZ	Lyngby R, DNK		
	PPO	Olinda R, B		
	SAG	Goeteborg R, S		
	WOO	Ocean Gate R, NJ, USA		
	XSQ	Guangzhou R, CHN		
	9MG 22	Georgetown R, Pin. I., MLA		
13134.9		coast stations, ch 1212	SSB	QSX 12364.1 kHz
	DAH	Norddeich R, D		
	GYU	RN Gibraltar, GIB		
	JBO	Tokyo R, J		
	OBQ 5	Iquitos R, PRU		
	OBR 3	Salaverry R, PRU		
	PKD	Surabaya R, INS		
	PNK	Jayapura R, INS		
	SVN 5	Athens R, GRC		
	WLO	Mobile R, AL, USA		
	YKO	Tartus R, SYR		
	3BB	Port Louis Harbour R, MAU		
	5OW	Lagos R, NIG		
	6VA	Dakar R, SEN		
		Abidjan F R, CTI		
13138.0		coast stations, ch 1213	SSB	QSX 12367.2 kHz
	HLS	Soul R, KOR		
	IAR	Rome R, I		
	LFL 35	Rogaland R, NOR		
	OHG 2	Helsinki R, FNL		
	OSU 53	Oostende R, BEL		
	PCG 51	Scheveningen R, NLD		
	S9M	Sao Tome R, STP		
	VCS	CCG Halifax, NS, CAN		
	XSG	Shanghai R, CHN		
	4XO	Haifa R, ISR		
	5WA	Apia R, SMO		
	8PO	Bridgetown R, BRB		
13141.1		coast stations, ch 1214	SSB	QSX 12370.3 kHz
	ASK	Karachi R, PAK		
	CKN	CF Vancouver, BC, CAN		
	EQZ	IORC Abadan R, IRN		
	HAR	Budapest R, HNG		
	LFL 36	Rogaland R, NOR		

13141.1	OXZ	Lyngby R, DNK		
	PPR	Rio de Janeiro R, B		
	SAG	Goeteborg R, S		
	SVN 5	Athens R, GRC		
	UFO	Kholmsk R, FE, URS		
13144.2		coast stations, ch 1215	SSB	QSX 12373.4 kHz
	OBC 3	Callao R, PRU		
	OSU 52	Oostende R, BEL		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
	S7Q	Victoria R, Mahe, SEY		
	TFA	Reykjavik R, ISL		
	WOM	Pennsuco R, FL, USA		
	4XO	Haifa R, ISR		
	7TA 25	El Djaza'ir R, ALG		
	7TF	Skikda R, ALG		
13147.3		coast stations, ch 1216	SSB	QSX 12376.5 kHz
	ODR 8	Beirut R, LBN		
	OHG 2	Helsinki R, FNL		
	SPC 61	Gdynia R, POL		
	SUH	Alexandria R, EGY		
	TAM	Mersin R, TUR		
	XSV	Tianjin R, CHN		
	9HD	Valetta R, MLT		
	9VG 66	Singapore R, SNG		
13150.4		coast stations, ch 1217	SSB	QSX 12379.6 kHz
	CLA 68	Habana R, CUB		
	LFL 37	Rogaland R, NOR		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
	VWM	Madras R, IND		
	ZHH	Jamestown R, SHN		
	7TA 26	El Djaza'ir R, ALG		
13153.5		coast stations, ch 1218	SSB	QSX 12382.7 kHz
	CBM	DGTMMM Magall. R, CHL		
	CBO	DGTMMM P. Corona R, CHL		
	CBV	DGTMMM Valpar. R, CHL		
	DAI	Norddeich R, D		
	D4A	Mindelo R, S. Vicente, CPV		
	D4D	Praia R, Santiago, CPV		
	IAR	Rome R, I		
	JBO	Tokyo R, J		
	LFL 38	Rogaland R, NOR		
	OSU 54	Oostende R, BEL		
	P.. ...	many R stations, B		
	S3E	Khulna R, BGD		
	TAH	Istanbul R, TUR		
	Z.. .	many R stations, B		
13156.6		coast stations, ch 1219	SSB	QSX 12385.8 kHz
	LFL 39	Rogaland R, NOR		
	LZW	Varna R, BUL		
	OSU 57	Oostende R, BEL		
	OXZ	Lyngby R, DNK		
	PCG 53	Scheveningen R, NLD		
	SAG	Goeteborg R, S		
	UFM 3	Nevelsk R, FE, URS		
	9VG 67	Singapore R, SNG		
13159.7		coast stations, ch 1220	SSB	QSX 12388.9 kHz
	DZI	Bacoor R, PHL		
	DZO	Bulacan R, PHL		

13159.7	EQQ	Khark R, IRN		
	JYO	Aqaba R, JOR		
	LPL 4	General Pacheco R, ARG		
	SPO 61	Szczecin R, POL		
	SVN 5	Athens R, GRC		
	S3E	Khulna R, BGD		
	TFA	Reykjavik R, ISL		
	VRT	Hamilton R, BER		
13162.8		coast stations, ch 1221 (WORLDWIDE CALLING FREQ.)	SSB	QSX 12392.0 kHz
13165.9		coast stations, ch 1222	SSB	QSX 12395.1 kHz
	FFL 64	Saint Lys R, F		
	FUB	FN Paris, F		
	LFL 40	Rogaland R, NOR		
	LPL	General Pacheco R, ARG		
	TAR	Zonguldak R, TUR		
	XFA	Acapulco R, MEX		
	XFE	Ensenada R, MEX		
	XFK	La Paz R, MEX		
	XF. .	many PEMEX R st., MEX		
	ZKR	Avarua R, Rarotg. I., CKH		
13169.0		coast stations, ch 1223	SSB	QSX 12398.2 kHz
	CNP	Casablanca R, MRC		
	HZG	Dammam R, ARS		
	LFL 41	Rogaland R, NOR		
	OMC	Bratislava R, TCH		
	OMK	Komarno R, TCH		
	OML	Decin R, TCH		
	OXZ	Lyngby R, DNK		
	PPM	Manaus R, B		
	SAG	Goeteborg R, S		
	S3D	Chittagong R, BGD		
	WOM	Pennsuco R, FL, USA		
13172.1		coast stations, ch 1224	SSB	QSX 12401.3 kHz
	CBM	DGTMMM Magall. R, CHL		
	CBV	DGTMMM Valpar. R, CHL		
	DAJ	Norddeich R, D		
	GKV 54	Portishead R, G		
	OHG 2	Helsinki R, FNL		
	YUR	Rijeka R, YUG		
	ZSD 56	Durban R, AFS		
	3AC 12	Monte Carlo R, MCO		
	6YI	Kingston R, JMC		
	9GX	Tema R, GHA		
	9KK 9	Safat R, KWT		
13175.2		coast stations, ch 1225	SSB	QSX 12404.4 kHz
	EHY	Madrid R, E		
	LFL 42	Rogaland R, NOR		
	P2M	Port Moresby R, PNG		
	P2R	Rabaul R, PNG		
	UDK	Murmansk R, RU, URS		
	WLO	Mobile R, AL, USA		
	XDA	Mexico City R, MEX		
	XF./.	many PEMEX/R st., MEX		
	XSQ	Guangzhou R, CHN		
	4PB	Colombo R, SLK		
	5RS	Toamasina R, MDG		
13178.3		coast stations, ch 1226	SSB	QSX 12407.5 kHz
	CBV	DGTMMM Valpar. R, CHL		
	FFL 61	Saint Lys R, F		

13178.3	LFL 43	Rogaland R, NOR		
	OMP	Prague R, TCH		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
	S3E	Khulna R, BGD		
	TAT	Canakkale R, TUR		
	VIM	Melbourne R, VIC, AUS		
	VIP	Perth R, WA, AUS		
	WLO	Mobile R, AL, USA		
	9MG 22	Georgetown R, Pin. I., MLA		
13181.4		coast stations, ch 1227	SSB	QSX 12410.6 kHz
	EHY	Madrid R, E		
	HEB 23	Berne R, SUI		
	OHG 2	Helsinki R, FNL		
	SPO 62	Szczecin R, POL		
	TJC	Douala R, CME		
	UFH	Petropavl.-Km. R, FE, URS		
	UGH 2	Juzno R, FE, URS		
	UKQ 2	Nakhodka R, SE, URS		
	VIA	Adelaide R, SA, AUS		
	VID	Darwin R, NT, AUS		
	VPS	Victoria Island R, HKG		
	YUS	Split R, YUG		
	9KK 92	Safat R, KWT		
	9PA	Banana R, ZAI		
13184.5		coast stations, ch 1228	SSB	QSX 12413.7 kHz
	ASK	Karachi R, PAK		
	CBV	DGTMMM Valpar. R, CHL		
	CLA 71	Habana R, CUB		
	GKV 58	Portishead R, G		
	HAR	Budapest R, HNG		
	LFL 44	Rogaland R, NOR		
	PPJ	Juncao R, B		
	PPL	Belem R, B		
	URB 2	Klaipeda R, LI, URS		
	WOO	Ocean Gate R, NJ, USA		
	8Q2	Male R, MLD		
13187.6		coast stations, ch 1229	SSB	QSX 12416.8 kHz
	A7D	Doha R, QAT		
	CFH	CF Halifax, NS, CAN		
	FFL 62	Saint Lys R, F		
	HLS	Soul R, KOR		
	KMI	Dixon R, CA, USA		
	SPC 62	Gdynia R, POL		
	UQK	Riga R, LA, URS		
	VIB	Brisbane R, QLD, AUS		
	VID	Darwin R, NT, AUS		
	VIP	Perth R, WA, AUS		
	YUR	Rijeka R, YUG		
13190.7		coast stations, ch 1230	SSB	QSX 12419.9 kHz
	GKV 50	Portishead R, G		
	HEB 33	Berne R, SUI		
	IAR	Rome R, I		
	KMI	Dixon R, CA, USA		
	LPC 42	Ushuaia R, ARG		
	OHG 2	Helsinki R, FNL		
	S3D	Chittagong R, BGD		
	WOM	Pennsuco R, FL, USA		
	WOO	Ocean Gate R, NJ, USA		
	5BA 56	Nicosia R, CYP		

13192.1	***WLO***	***Mobile R, AL, USA***	***scheduled***
13193.8		coast stations, ch 1231	SSB QSX 12423.0 kHz
	EQN	Khomeini R, IRN	
	FFL 63	Saint Lys R, F	
	LFL 45	Rogaland R, NOR	
	OBG 3	Pisco R, PRU	
	OBY 2	Paita R, PRU	
	SPC 64	Gdynia R, POL	
	VIS	Sydney R, NSW, AUS	
	VIT	Townsville R, QLD, AUS	
	VPS	Victoria Island R, HKG	
	ZPC	Asuncion R, PRG	
	5AB	Benghazi R, LBY	
	5OW	Lagos R, NIG	
	8Q2	Male R, MLD	
13196.9		coast stations, ch 1232	SSB QSX 12426.1 kHz
	ASK	Karachi R, PAK	
	GKW 52	Portishead R, G	
	HPP 20	Panama R, PNR	
	J..	many R stations, J	
	KUQ	Pago Pago R, SMA	
	SVN 5	Athens R, GRC	
	Y5M	Rügen R, D	
	7TA 27	El Djaza'ir R, ALG	
13199.5	**SUA 289**	**MENA Cairo, EGY**	**(sp 15845.0 kHz)**

13200.0 - 13260.0 AERONAUTICAL MOBILE (OR)

13200.0	**CAI 7E**	**Hanga Roa Air, PAQ**	**1335 + 2142-0524 ry or msgs**
13201.0	AFI	USAF MC.AFB, S.,CA, USA	SSB
	AIC	USAF Cl. AFB, Luzon, PHL	SSB
	AIE	USAF Andersen AFB, GUM	SSB
	AKA	USAF E. AFB, Anchor., ALS	SSB
	XPH	USAF T. AFB, Uumnq., GRL	SSB
13204.0	AFA	USAF A.AFB, C.S.,MD, USA	SSB
13205.0	HEE 60	Berne Air, SUI	SSB
13205.5	AXF	RAAF Sydney, NSW, AUS	SSB
13210.0	AFE	USAF MD. AFB, T., FL, USA	SSB
13214.0	AFL	USAF Lg. AFB, L.,ME, USA	SSB
	AJE	USAF Croughton, G	SSB
	AJO	USAF Adana, TUR	SSB
13220.0		AEROFLOT Mosc., RU, URS	SSB
13225.0	JYJ	RJ Amman, JOR	SSB
13226.7		**Egyptian E Ankara, TUR**	**SITOR-A: 1314 ATU-A msgs to Cairo**
13231.0	DHM 95	CF Lahr, D	SSB
13241.0		many USAF stations	SSB
13244.0	AFE	USAF MD. AFB, T., FL, USA	SSB
	AFE 83	USAF Wideawake, ASC	SSB
	CUW	PAF/USAF Lajes AFB, AZR	SSB
13247.0	AFA	USAF A.AFB, C.S.,MD, USA	SSB
	AKA	USAF E. AFB, Anchor., ALS	SSB
13248.0	DHM 91	GAF Münster, D	SSB
	'OPBE'	JAT Belgrade, YUG	SSB
13254.0	CFH	CF Halifax, NS, CAN	SSB
	CJX	CF Saint John's, NFLD, CAN	SSB
	NKW	USN Diego Garcia, DGA	SSB
13257.0	CHR	CF Trenton, ONT, CAN	SSB

13260.0 - 13360.0 AERONAUTICAL MOBILE (R)

13261.0		AMS = VAFI	SSB
13264.0		AMS = 14, VEUR	SSB
13267.0		AMS = 3 13H	SSB
13270.0		AMS = 6G, VNAT	SSB
13273.0		AMS = AFI	SSB
13276.0		AMS = 6G, VNAT	SSB
13279.0		AMS = VNCA VSAM	SSB
13282.0		AMS = VPAC	SSB
13285.0		AMS = 10, VSEA	SSB
13288.0		AMS = AFI EUR MID	SSB
13291.0		AMS = NAT, 6	SSB
13294.0		AMS = AFI	SSB
13295.0		MFA Dakar, SEN	CW
13297.0		AMS = CAR EA SAM	SSB
13300.0		AMS = CEP CWP NP SP, 4	SSB
13303.0		AMS = EA NCA	SSB
	TAD	MFA Ankara, TUR	FEC-A 144 Bd: 1930 msgs
13306.0		AMS = INO NAT	SSB
13309.0		AMS = EA SEA, 13C 13K	SSB
13310.0	'RFFA'	MOD Paris, F	ARQ-E 72 Bd: 1435 msg to 'RFFXI', 1854 msg (5lgs) to 'RFFXI' [XXI]
13312.0		AMS = MID, 11B	SSB
13315.0		AMS = NCA SAT	SSB
13318.0		AMS = SEA, 13	SSB
13321.0		AMS = 2 3	SSB
13324.0		AMS = W I/III	SSB
13327.0		AMS = W I/IV	SSB
13330.0		AMS = W II/V	SSB
13333.0		AMS = W I/III	SSB
13336.0		AMS = W I/IV	SSB
13339.0		AMS = W II/V	SSB
13342.0		AMS = W I/III	SSB
13345.0		AMS = W I/IV	SSB
13347.7		MFA Cairo, EGY	SITOR-A: 1310 clg Rabat, 1732 ATU-A tfc to Tunis, 1853 tfc
13348.0		AMS = W II/V	SSB
13351.0		AMS = W I/III	SSB
13354.0		AMS = 5 7	SSB
13357.0		AMS = SAT, 2	SSB

13360.0 - 13410.0 FIXED + RADIO ASTRONOMY <533>

13360.0	BSB 35	Lanzhou Meteo, CHN	0025-0954 ry or wx
	RYM	IAG Moscow, RU, URS	SSB
13360.7	GPA 5	Portishead R, G	SITOR-A: 1926-0745 tts CW
13366.5	5YD	Nairobi Air, KEN	24 h ry or msgs [KVA]
13370.0	RKU 72	R Moscow feeder, RU, URS	SSB
13372.5	NGR	USN Kato Soli, GRC	CW
13380.0	CUA 67	CPRM Lisbon, POR	ARQ-M2-242 96 Bd: B: 0815 to HVH, 0856 ry, 1630 to HVH
13385.0	RUZU	SAAM Molodezhnaya, ATA	CW
	UDY	SAAM Novolazarevsk., ATA	CW
	UGE 2	SAAM Bellingshsn., ATA	CW
13387.0	KKN 39	Miami, FL, USA	CW
13396.0		Jakarta, INS	SSB

13398.0		Czech E Sofia, BUL	75 Bd: 0807 msgs to OMZ
13399.0	'DFZG'	MFA Belgrade, YUG	75 Bd: 0500 encrypted msg after "XFXFXF...", 0530 msg (SC press review), 0632 ry, 0655 msg, 1500 msg (SC nx), 1615 tfc
13400.0	CUA 68	CPRM Lisbon, POR	ARQ-M2 96 Bd: A: 1444 idling to HVH
	LZG 3	BTA Sofia, BUL	1200 + 1300 E nx
13405.0	*RNR 4*	*Magadan Meteo, FE, URS*	*FAX // 5755.0 kHz*
13410.0 - 13600.0		**FIXED + Mobile except aeronautical mobile (R)**	<534>
13415.3	PCW 1	MFA Den Haag, NLD	SITOR-A: 1026 + 1529-0050 tfc CW
13420.0	CUA 69	CPRM Lisbon, POR	CW
13425.0	ZOE 22	Gough Island Meteo, TRC	SSB
13430.0	RRC 61	APN Moscow, RU, URS	100 Bd: 0700 + 0800 G nx
	RRC 61	R Moscow feeder, RU, URS	SSB
	VTK	IN Tuticorin, IND	CW
13437.0	'RPFN'	PN Lisbon, POR	1500 clg 'RPTI', 1840 ry
13440.0	YZJ 5	TANJUG Belgrade, YUG	0000-0500 + 0900-1700 E nx
13444.2	'RFQP'	FF Jibuti, DJI	ARQ-M2 96 Bd: B: 1356 msg + encrypted tfc after "KKKK..." to 'RFVI' [FKO]
13449.0	UMS	Moscow, RU, URS	CW
13450.0	*RCO 75*	*Yakutsk Meteo, SE, URS*	*FAX // 10665.0 kHz*
13455.0	AWM	Madras Air, IND	CW
	UHF 3	Moscow, RU, URS	0040-1134 ry or msg (5lgs)
13460.0		French E San'a, YEM	FEC-A 192 Bd: 0750 encrypted msg + msg + msg (5lgs) to 'P6Z'
13464.2	TAD	MFA Ankara, TUR	FEC-A 144 Bd: 0759 msgs
13465.0	'RPFN'	PN Lisbon, POR	75 Bd: 1500 tfc
13470.0	*RKU 71*	*Moscow Meteo, RU, URS*	*FAX // 53.6 kHz $*
13473.0	GYU	RN Gibraltar, GIB	ARQ-M2 96 Bd: A: 2018 final tfc COMB
13487.5	ISX 35	ANSA Rome, I	0900 F nx
13490.0	RCG 77	TASS Moscow, RU, URS	1600 F nx, 1700 + 1800 A nx, 1900 F nx, 2100 A nx
13502.0	YWM	VN Maracaibo, VEN	75 Bd: 1733 foxes
13505.0	RUZU	SAAM Molodezhnaya, ATA	1049 msgs to ULV
13510.0	CFH	CF Halifax, NS, CAN	75 Bd: 0847-2300 ry or wx *FAX // 122.5 kHz $*
13510.5		UNID German diplomatic station (890)	ARQ-E 192 Bd: 1743 final tfc "ok mir reichts ... wird auch zeit", s. off
13515.0	MKD	RAF Akrotiri, CYP	VFT: 24 h ryi COMB
13517.0	PWZ	BN Rio de Janeiro, B	75 Bd: 2041 + 2055 clg CXR
13523.0	CCS	CN Santiago, CHL	100 Bd: 2200 ry
13524.0	YIO 72	INA Baghdad, IRQ	0900 + 1100 E nx, 1200 F nx, 1300-2300 E nx
13525.0	*CCS*	*CN Santiago, CHL*	*FAX // 4766.0 kHz $*
13526.0	DHJ 51	Grengel Meteo, D	100 Bd: 24 h wx
13530.0	RVW 53	Moscow Meteo, RU, URS	24 h ry or wx
13537.0		UNID station (990)	ARQ-E 192 Bd: 0748-1140 + 1656 encrypted tfc
13538.0	*ZRO 3*	*Pretoria Meteo, AFS*	*FAX // 4014.0 kHz $*
13540.0	LRO 81	TELAM Bs. Aires, ARG	1500-0400 S nx

13540.0	RRW 71	APN Moscow, RU, URS	100 Bd: 0400+0500+0600 A nx
		Jakarta, INS	SSB
13541.5	SON 254	PAP Warsaw, POL	SITOR-B: 1200+1400+1800 Polish nx
13542.0	ZRO 3	Pretoria Meteo, AFS	75 Bd: 1820-0611 wx
	'RFTJD'	FF Douala, CME	ARQ-E3 48 Bd: 0645 encrypted msg after "KKKK..." to 'RFFA' [FTI]
13542.8	TAD	MFA Ankara, TUR	FEC-A 144 Bd: 0843 msgs (5lgs)
13543.0	LBL 1	Norw. UNIFIL Beirut, LBN	SSB
	'H6L'	French E El Djaza'ir, ALG	75 Bd: 1026 msg (5fgs) + final tfc to 'P6Z', s. off
13550.0	*ZKLF*	*Auckland Meteo, NZL*	*FAX // 5807.0 kHz $*
			CW
13556.0	'G8T'	French E Belgrade, YUG	75 Bd: 0930 clg + tfc to 'P6Z'
13560.0	BMB	Taipei Meteo, TAI	CW
13563.0	3MA 22	CNA Taipei, TAI	0230-0330+0930-1030+1330-1500 E nx
13563.6	SON 263	PAP Warsaw, POL	0600 E nx
13565.0	MKD	RAF Akrotiri, CYP	VFT: 24 h ryi
			COMB
13567.5	GPA 2	Portishead R, G	SITOR-A: 1911+2049+2211 tts
			CW
13571.0	HBD 20	MFA Berne, SUI	SITOR-A: 1000 msg (F/G press review), 1641 msgs to HBD 44
	HBD 44	Swiss E Stockholm, S	SITOR-A: 1641 tfc to HBD 20
13572.5	'RFFX'	FF Versailles, F	ARQ-E 72 Bd: 1226+2056 operational msg to 'RFFXL' [XXL]
13580.0	HMF 36	KCNA Pyongyang, KRE	0030-0100 F nx, 0400-0730 E nx, 1200+2330-2400 F nx
			FAX // 7363.7 kHz
13585.5	LRB 218	Buenos Aires, ARG	2051 msgs to Jujuy
13597.0	*JMH 4*	*Tokyo Meteo, J*	*FAX // 3622.5 kHz $*
13597.4	*IMB 56*	*Rome Meteo, I*	*FAX // 4777.5 kHz $*
13598.2	VTU 4	Bombay, IND	CW

13600.0 - 13800.0 BROADCASTING <531>

13602.4	SON 260B	PAP Warsaw, POL	SITOR-B: 1200+1400+1800 Polish nx
	SPW	Warsaw R, POL	SITOR-A: 0647+1510-1732+2130 tts; QSX 12521.5 kHz
13610.0	3VF 40	TAP Tunis, TUN	1100 A nx, 1300 F nx, 1400 A nx, 1500-1800 F nx
13616.0	SON 261	PAP Warsaw, POL	CW
13633.0	RMP	SN Kaliningrad, RU, URS	CW
13635.5	'S'	Bcn. Arkhangelsk, RU, URS	CW
13636.0	'C'	Beacon Moscow, RU, URS	CW
13636.2	'P'	Bcn. Kaliningrad, RU, URS	CW
13636.5	'M'	Beacon Magadan, FE, URS	CW
13637.0	'D'	Beacon Odessa, UK, URS	CW
	'F'	Bcn. Vladivostok, SE, URS	CW
13638.0	'O'	Beacon Moscow, RU, URS	CW
13638.7	'Z'	Bcn. Mukachevo, UK, URS	CW
13638.8	'L'	Bcn. Leningrad, RU, URS	CW
13639.0	'Ü'	Beacon Kholmsk, FE, URS	CW

13653.0	SUA 50	MENA Cairo, EGY	0600+0800 F nx, 0900 E nx, 1200+1500+1700 F nx, 1800+2000+2100 E nx
13655.2	'RFQP'	FF Jibuti, DJI	ARQ-M2 200 Bd: A: 0726-1605 msg or encrypted tfc after "KKKK..." to 'RFFA' [QPB] B: 0726-1455 msg or encrypted tfc after "KKKK..." to 'RFFA' [QPA, QPB]
13656.0	XVN 8	VNA Hanoi, VTN	0400+0530+1130 F nx, 1400 V nx, 1430 F nx
13665.0	6VU 73	Dakar Meteo, SEN	24 h ry or wx
13669.5	*6VU 73*	*Dakar Meteo, SEN*	*FAX $*
13670.0	RVW 52	R Moscow feeder, RU, URS	SSB
13707.0	*RXA 77*	*Alma Ata Meteo, KA, URS*	*FAX 90/576: 0420+0625 chart Europe - Soviet Union*
13732.0	'RFLI'	FF Fort de France, MRT	ARQ-E 72 Bd: 0413 tfc, 1345 msg, 2220 tfc [IAG]
13735.0		R Moscow feeder, RU, URS	SSB
13737.0	5YD	Nairobi Air, KEN	24 h ry or msgs [KSA]
13752.0	HZJ	Jeddah Air, ARS	24 h ry or msgs [JVA]
13753.5	*LRB 75*	*REUTER Buenos Aires, ARG*	*FAX 60/288 LSB ISD: 1410-2110 pix with S text*
13765.0	JAM 33	DIS Tokyo, J	0900 E nx
13766.0	*3MA 26*	*CNA Taipei, TAI*	*FAX // 5117.0 kHz*
			CW
13770.0		VoA Tanger, MRC	75 Bd: 0800+0900+1000 E nx, 1100 F nx, 1200+2200+2300 E nx
13779.0	BCA 95	PTT Shanghai, CHN	1118-1142+2234 ry or to CLN 405 [ZCA]
13780.0	HMF 35	KCNA Pyongyang, KRE	0400-0530 E nx, 0600-0830 R nx wca, 1000-1100 E nx, 1230 1430 R nx wca, 1500 E nx

13800.0 - 14000.0 FIXED + Mobile except aeronautical mobile (R)

13803.0	CSE	PAF Lisbon, POR	SSB
	RCR 78	Khabarovsk Met., SE, URS	24 h wx
13814.0	CXR	UN Montevideo, URG	2330 ry
		PERTAMINA Jakarta, INS	SITOR-A: 0943 tfc to Lhokseumawe
		PERTAMINA Lhoks., INS	SITOR-A: 0943 msgs to Jakarta
13815.0	KRH 50	USE London, G	CW
13820.0	RVW 55	R Moscow feeder, RU, URS	ISB
13826.5	CLN 411	PL Habana, CUB	0800+0900 E nx
13828.0	RIW	SN Khiva, UZ, URS	CW
13828.8	CLP 67	Cuban E Baghdad, IRQ	2053 ry, msg (5fgs) to CLP 1
13830.0	RGV 51	R Moscow feeder, RU, URS	SSB
13830.2	'RFQP'	FF Jibuti, DJI	ARQ-M2 200 Bd: B: 0030+0053 "controle de voie" to 'RFFA' [QPB]
13833.0	TAD	MFA Ankara, TUR	FEC-A 144 Bd: 0939+1630 tfc

13846.7	'RFVI'	FF Le Port, REU	ARQ-M2 96 Bd: A: 0543+1330-2252 msgs or svc msgs or msg (5lgs) or wx or encrypted tfc after "KKKK..." or "controle de voie" to 'RFFA' or 'RFQP' [RUN] B: 1347 msg to 'RFFA', 1500 encrypted tfc after "KKKK..." to 'RFFA', 1537+2303 "controle de voie" to 'RFFA' [RUN]
13850.0	NPN	USN Apra Harbour, GUM	COMB
13855.0	*OXT*	*Copenhagen Meteo, DNK*	*FAX // 5850.0 kHz $*
			CW
	XVB 31	PTT Hanoi, VTN	0300 clg HMZ 33
		PTT Gufunes fdr., ISL	SSB
13865.0	RUZU	SAAM Molodezhnaya, ATA	0542 msgs, 1600 ry, 1646 wx
		UNID station (990)	ARQ-N 96 Bd: 1003 msg (5lgs), 1205 I final tfc, s. off
13866.0	ZEN 64	AFP Victoria Island, HKG	75 Bd: 0700+0800 E nx
13870.0	9UA	Usumbura Air, BDI	1740-2310 ry or msgs [BDA]
13875.8	HGX 44	Hungarian E Baghdad, IRQ	DUP-ARQ: 1917 msgs to HGX 21
	HGX 56	Hungarian E Cairo, EGY	DUP-ARQ: 1353 msgs (5fgs) to HGX 21
13876.2	HGX 21	MFA Budapest, HNG	DUP-ARQ: 1353 tfc to HGX 56, 1917 tfc to HGX 44
13877.0		Polish E Athens, GRC	75 Bd: 1147 msg + tfc to SNN 299
			CW
13882.5	*DDK 6*	*Hamburg Meteo, D*	*FAX // 3855.0 kHz $*
13886.0	TAD	MFA Ankara, TUR	75 Bd: 1435-2130 msgs to Washington
13901.2	'RFQP'	FF Jibuti, DJI	ARQ-M2 200 Bd: A: 0515 msgs (5lgs) or "controle de voie" to 'RFFA' [QPB]
13903.0		UNID station (1190)	ARQ-E 96 Bd: 0745 encrypted tfc
13906.1	VER	CF Ottawa, ONT, CAN	ARQ-M2 96 Bd: B: 24 h encrypted tfc
13914.0	TAD	MFA Ankara, TUR	FEC-A 144 Bd: 1300 msgs
13915.0	HBC 88	ICRC Geneva, SUI	SITOR-A: 1433 final tfc
13920.0	AXM 35	Canberra Meteo, ACT, AUS	1635 test (wx) *FAX // 2628.0 kHz $*
	LZN 3	BTA/PTT Sofia, BUL	(hx 6960.0 kHz)
13925.0	MKD	RAF Akrotiri, CYP	VFT: 2059+2206 ryi
			COMB
13927.7	DFN 92	PIAB Bonn, D	FEC-A 96 Bd: 1345+1400+1500+1600 G nx
13928.6	DMK	MFA Bonn, D	ARQ-E 96 Bd: 1415+1429 msgs to Madrid
		German E Accra, GHA	ARQ-E 96 Bd: 0904 encrypted msg + msg to DMK
		German E Athens, GRC	ARQ-E 96 Bd: 1123+1234 encrypted msgs to DMK
		German E Delhi, IND	ARQ-E 96 Bd: 0810 final tfc to DMK, s. off
13929.7		MFA Cairo, EGY	SITOR-A: 2336 ATU-A tfc
13932.0	'DOR'	MFA Sofia, BUL	75 Bd: 0908 encrypted msgs after "DDD..."
13935.0	TAD	MFA Ankara, TUR	FEC-A 144 Bd: 1135 tfc
13937.5	ONY 27	NATO Mons, BEL	CW
13941.5		MFA Tunis, TUN	SITOR-B: 0922-2133 tfc or msgs (5lgs)

13942.5	GYA	RN London, G	75 Bd: 0844 + 1812 foxes
	SKM 39	Stockholm Air, S	SSB
13944.0	**YOG 59**	**ROMPRES Bucharest, ROU**	**(hx 6972.0 kHz)**
13947.0	*ROM 5*	*Tashkent Meteo, UZ, URS*	*FAX // 3280.0 kHz $*
13951.5		**MFA Tunis, TUN**	**SITOR-B: 1731 msgs (5lgs)**
13953.0		**Turkish E Belgrade, YUG**	**FEC-A 144 Bd: 0703 msg to TAD**
13955.0	**TAD**	**MFA Ankara, TUR**	**FEC-A 144 Bd: 1000 msgs**
13960.0	ROW 27	R Moscow feeder, RU, URS	SSB
13966.5	**HBC 88**	**ICRC Geneva, SUI**	**SITOR-A: 0805 tfc to Baghdad, 0945 tfc, 1133 tfc to SUR 88**
		ICRC Baghdad, IRQ	**SITOR-A: 0805 msg to HBC 88**
13970.0		Kuala Lumpur, MLA	SSB
13974.0		many USN MARS stations	SSB
13977.5		PTT Moscow, RU, URS	SSB
13977.7	**'RFFUAJ'**	**FF Villacoublay, F**	**ARQ-M2 200 Bd: 24 h msgs [QVA]**
13982.0	**TAD**	**MFA Ankara, TUR**	**FEC-A 144 Bd: 1646 msg + tfc to Prague**
13985.0		many USAF MARS stations	SSB
13986.0	OEY 32	AA Salzburg, AUT	SSB
	OEY 632	Austr. UNFICYP Larn., CYP	SSB
13987.5	**OST**	**Oostende R, BEL**	**SITOR-A: 1153-2127 tts** CW
13993.0	AIR	USAF MARS A.AFB,MD,USA	SSB
13996.5	**STK**	**Khartoum Air, SDN**	**0911-2315 ry or msgs [SKA]**

14000.0 - 14250.0 AMATEUR + AMATEUR-SATELLITE <510>

14096.6	**UHF 3**	**Moscow, RU, URS**	**(hx 7048.3 kHz)**
14106.0	RGT 77	Moscow, RU, URS	CW
14108.0	UPN	Odessa, UK, URS	CW
14140.9	UMS	Moscow, RU, URS	CW
14147.0	RGT 77	Moscow, RU, URS	CW
14171.0	UMS	Moscow, RU, URS	CW
14185.0	UCA	Odessa, UK, URS	CW
14206.5	RQT	Irkutsk, SE, URS	CW
14211.9	**RMT**	**SN Chelyuskin, SE, URS**	**1336 R tts wtsca**
14240.6	**CLP 1**	**MFA Habana, CUB**	**0940 msg**

14250.0 - 14350.0 AMATEUR <510 535>

14280.0	RJV	SN Tiksi, SE, URS	CW
14294.5	RQT	Irkutsk, SE, URS	CW
14320.7		**MFA Cairo, EGY**	**SITOR-A: 0528 ATU-A tfc**
14325.0	'U'	Bcn. Murmansk, RU, URS	CW
14340.0	**BAF 47**	**Beijing Meteo, CHN**	**2140-1051 wx**

14350.0 - 14990.0 FIXED + Mobile except aeronautical mobile (R)

14356.0	**GFL 24**	**Bracknell Meteo, G**	**24 h ry or wx**
14357.5	**DMK**	**MFA Bonn, D**	**ARQ-E 192 Bd: 1156 encrypted msgs after "VVVVVVVV" to Baghdad**
	FTO 35	DTRE Paris, F	SSB
14359.0	**SNN 299**	**MFA Warsaw, POL**	**75 Bd: 0750 msg, 1552 + 1558 ry, 1717 msgs (5fgs) to European embassies**

14360.0	AOK	USN Rota, E	75 Bd: 24 h foxes without ID
	KWS 78	USE Athens, GRC	CW
14362.0	SOO 236	PAP Warsaw, POL	1200 Polish nx, 1700 E nx CW
14364.0	'5W3'	Czech E Moscow, RU, URS	100 Bd: 1208 tfc + msg (Czech press review) to OMZ
14367.0	*BAF 8*	*Beijing Meteo, CHN*	*FAX // 5527.0 kHz $*
	BZP 54	XINHUA Beijing, CHN	75 Bd: 0600-2000 E nx
14370.5	HZJ	Jeddah Air, ARS	0319-2207 ry or msgs [JSA]
14371.0	VER	CF Ottawa, ONT, CAN	ARQ-M2 96 Bd: A: 1640 encrypted tfc
14373.0	YIL 73	INA Baghdad, IRQ	0900 + 1000 E nx, 1100 A nx, 1200 F nx, 1300-2300 E nx
14376.0	BZT 34	XINHUA Beijing, CHN	0830-0945 R nx wca
14381.0	GXQ	BA London, G	VFT: 0748 ryi COMB
	MUA	BA London, G	VFT: 0225 ryi COMB
14383.3		many USN MARS stations	SSB
14384.5		many CFARS stations	SSB
14390.0		PLO Tunis, TUN	SSB
14392.2	AIR	USAF MARS A.AFB,MD,USA	75 Bd: 1926 msgs, 2050 tfc
14397.0	'DOR'	MFA Sofia, BUL	75 Bd: 0900 msg
14400.0	VTK	IN Tuticorin, IND	CW
14402.0	ZSC	PTT Cape Town, AFS	AUTOSPEC 68 Bd: 1507 idling
14405.0	MKD	RAF Akrotiri, CYP	VFT: 0406 + 1055-2307 ryi COMB
14407.0		MFA Islamabad, PAK	0717 final tfc, s. off
14410.0	RIZ 54	R Moscow feeder, RU, URS	ISB
	'RPTIH'	PN Horta, AZR	1542 + 2122 clg 'RPFNN'
14420.0	'RFTJDA'	FF Libreville, GAB	ARQ-E 72 Bd: 1627 + 1736 "controle de voie" to 'RFTJD' [DAD]
14429.0		Lubumbashi, ZAI	SITOR-A: 1443-1730 msgs + tfc to Kinshasa
14432.0	7RA 20	MOI El Djaza'ir, ALG	0900 tfc to Adrar
		MFA Kinshasa, ZAI	SITOR-A: 1528 + 1925 msgs
14432.5	MKK	RAF London, G	VFT: 0307-2202 ryi COMB
14434.5	FJY 4	Martin de Vivies Meteo, AMS	75 Bd: 0310 s. on with clg Reunion, 0905 wx
14436.0	*GFE 23*	*Bracknell Meteo, G*	*FAX // 2618.5 kHz $*
14437.0	RUU 72	R Moscow feeder, RU, URS	SSB
14441.5		many USN MARS stations	SSB
14442.0	'G8T'	French E Belgrade, YUG	1130 clg + tfc to 'P6Z'
14445.0	*BAF*	*Beijing Meteo, CHN*	*FAX // 3170.0 kHz*
	MKK	RAF London, G	VFT: 0819-2108 ryi
		many CFARS stations	SSB
14450.0	VTK	IN Tuticorin, IND	CW
	4XZ	IN Haifa, ISR	CW
14452.0	HMF 57	KCNA Pyongyang, KRE	0800-1030 E nx, 1215 + 1300 F nx
14461.5		many CFARS stations	SSB
14462.5	TNL	ASECNA Brazzaville, COG	0609 ry, 1555 msg, 1720 ry [FHB]
14467.0		many USN MARS stations	SSB
14470.0		many USN MARS stations	SSB
14476.5	'K'	Bcn. Khabarovsk, SE, URS	CW
14477.0		many USN MARS stations	SSB
14478.0		Czech E London, G	100 Bd: 1503 msg to OMZ
		MFA Islamabad, PAK	SITOR-A: 1148 tfc

14480.0		**Czech E Sofia, BUL**	**75 Bd: 1112 msgs to OMZ**
14486.0	**'P6Z'**	**MFA Paris, F**	**ARQ-E 48 Bd: 0800 "controle de voie"** **FEC-A 144 Bd: 0715 msg (5lgs), 1115 tfc to 'Z4D', 1555 msg (F nx)**
14488.5	**OEC**	**MFA Vienna, AUT**	**SI-ARQ 96 Bd: 5 characters: 0710 tfc to Baghdad, 0754 + 0840 msg (E APA-nx), tfc to OEC 35, 0905 tfc to Damascus, 1002 tfc, 1458 tfc to OEC 72**
	OEC 35	**Austrian E Delhi, IND**	**SI-ARQ 96 Bd: 5 characters: 0845 final tfc to OEC, s. off**
	OEC 51	**Austrian E Cairo, EGY**	**SI-ARQ 96 Bd: 5 characters: 0955 tfc + msgs to OEC**
	OEC 72	**Austrian E Lisbon, POR**	**SI-ARQ 96 Bd: 5 characters: 1501 tfc + msg (5lgs) to OEC**
14490.0	**RNK 36**	**TASS Moscow, RU, URS**	**0415-1700 + 2000 E nx**
14492.0	CMU 967	SN Habana, CUB	CW
14497.5	**CSY**	**Santa Maria Air, AZR**	**24 h ry or msgs [MÇA]**
14498.0	**SUC**	**Cairo Air, EGY**	**0744-2203 ry or msgs [ESA]**
14506.7		**Burgos, E**	**SITOR-A: 0947 tfc + msg**
14508.0	**D4B**	**Amilcar C. Air, Sal, CPV**	**1312-0019 ry or msgs [CMA]**
14509.0	RIW	SN Khiva, UZ, URS	CW
14510.0	**RIC 75**	**TASS Moscow, RU, URS**	**0000 + 0500-1900 E nx**
14512.5		**MFA Jakarta, INS**	**0032 tfc**
14517.0	**TAD**	**MFA Ankara, TUR**	**FEC-A 144 Bd: 1514 msg**
14520.0	**OEC**	**MFA Vienna, AUT**	**SI-ARQ 96 Bd: 5 characters: 1100 msg (G nx)**
	OEC ..	**Austrian E Paris, F**	**SI-ARQ 96 Bd: 5 characters: 0940 tfc to OEC**
14522.0	*FUF*	*FN Fort de France, MRT*	*FAX 120/576: 1030 test chart, 1200 + 2230 AS/ANCA Lesser Antilles*
14526.0		VoA Greenvl. fdr., NC, USA	ISB
14526.5		**VoA La Union, Poro Island, PHL**	**75 Bd: 0000 + 0100 + 0300 + 0600 E nx**
14537.5		**MFA Rome, I**	**SITOR-A: 0939 msg (5lgs)**
14540.0	**MKK**	**RAF London, G**	**VFT: 0218-1946 ryi** COMB
14546.5		**Italian E El Djaza'ir, ALG**	**SITOR-A: 0720 + 0845 + 1025 + 1353 msg + msg (5lgs) to Rome**
14547.5	**JAL 44**	**KYODO Tokyo, J**	**0720-0820 + 1000-1100 E nx**
14556.0	RIW	SN Khiva, UZ, URS	CW
14560.0	**JYF 2**	**PETRA Amman, JOR**	**0800 E nx, 0900 + 1000 + 1100 A nx**
14564.0	5BC 68	Nicosia R, CYP	SSB QSX 16442.0 kHz
14568.0	**HMF 32**	**KCNA Pyongyang, KRE**	**0400-0600 + 1000-1100 E nx**
14573.0		**JANA Tripoli, LBY**	**0700-1300 + 1600 + 1700 A nx**
14574.4	**CNM 59X9**	**MAP Rabat, MRC**	**0900-1030 A nx, 1200-1400 E nx, 1530-1700 A nx**
14578.0	**'RFFXL'**	**FF Beirut, LBN**	**ARQ-E 72 Bd: 0840 + 1005 + 1030 + 1648 ry or msg to 'RFFX' [XZL]**
14580.0	**RCC 74**	**APN Moscow, RU, URS**	**100 Bd: 0900 + 1000 R nx wtsca**
	RCC 74	R Moscow feeder, RU, URS	SSB
14582.5	*GFA 25*	*Bracknell Meteo, G*	*FAX // 3289.5 kHz $*

14585.7	'RFPTC'	FF N'djamena, TCD	ARQ-M2 200 Bd: A: 1915 operational msgs to 'RFFA', 1918 encrypted tfc after "KKKK..." to 'RFFA' [FDZ2]
14595.0	JAL 54	KYODO Tokyo, J	0720-0820 + 1400 E nx
14597.0	SOO 259	PAP Warsaw, POL	SITOR-B: 1300 + 1400 + 1800 Polish nx
14600.0	CAK	Santiago Air, CHL	0855 + 2315-0140 ry or msgs [SIA]
14602.5	MKD	RAF Akrotiri, CYP	VFT: 1513 ryi COMB
14604.0	BAC 24	PTT Beijing, CHN	0758 + 1355-1520 ry
14606.0		many USAF MARS stations	SSB
14607.0	TAD	MFA Ankara, TUR	FEC-A 144 Bd: 0812 msgs
14607.5		INTERPOL Victoria I., HKG	CW
14609.5	PWZ	BN Rio de Janeiro, B	0939 ry
14610.0	*RCR 79*	*Khabarovsk Met., SE, URS*	*FAX // 3250.0 kHz $*
14612.0	FVA 80	Rosny sur Bois Gend., F	CW
	FVZ 99	Saint Pierre Gend., SPM	CW
14616.0	KWL 90	USE Manila, PHL	CW
14625.0	RCG 79	R Moscow feeder, RU, URS	ISB
14626.7	'RFLI'	FF Fort de France, MRT	ARQ-E3 192 Bd: 1100 encrypted msg after "KKKK..." to 'RFTJ', 1255 + 1511 + 1803 "controle de voie" to 'RFTJ' [LIJ]
14627.0		*UNID station (190)*	*FAX 120/576: 0200 + 1430 chart*
14633.0	9UA	Usumbura Air, BDI	1025 msgs, 2040 ry
		Jakarta, INS	SSB
14634.0	GYA	RN London, G	75 Bd: 0219-2034 test
14635.0	RDR 28	PTT Moscow, RU, URS	SSB
14638.0	WFK 54	USIA New York, NY, USA	75 Bd: 1500-2300 E nx
14639.5		PTT Moscow, RU, URS	SSB
14640.0		KPL Vientiane, LAO	0900 E nx
14641.0	EBA	SN Madrid, E	CW
14645.0	SKN 26	Stockholm Air, S	SSB
14645.7		Egyptian E Khartoum, SDN	SITOR-A: 0656 + 1548 + 1920 ATU-A tfc to Cairo
14647.5		Jambi, INS	SSB
14650.0	TAD	MFA Ankara, TUR	FEC-A 144 Bd: 1238 tfc
14654.5	SPW	Warsaw R, POL	SITOR-A: 1008-2009 tts CW
14656.0	SPW	Warsaw R, POL	SSB
14663.5	DMK	MFA Bonn, D	ARQ-E 96 Bd: 0915 msgs to Athens, 1434 tfc to Beirut CW
		German E Athens, GRC	ARQ-E 96 Bd: 1017 msgs to DMK
14669.0	'RFTJDA'	FF Libreville, GAB	ARQ-E 72 Bd: 1747 "controle de voie" to 'RFTJD' [JDA]
14670.0	CHU	Ottawa TS, ONT, CAN	CW/SSB
	MKD	RAF Akrotiri, CYP	VFT: 1620-0322 ryi COMB
14677.0	'DFZG'	MFA Belgrade, YUG	75 Bd: 0700 msg; 0913 ry, msg (SC nx
14685.0	*3MA 25*	*CNA Taipei, TAI*	*FAX // 5117.0 kHz* CW
14689.8	'DKR'	French E Dakar, SEN	FEC-A 192 Bd: 1853 tfc to 'BKO'
14690.0	'BKO'	French E Bamako, MLI	FEC-A 192 Bd: 1850 tfc to 'DKR'
14692.5	*JMJ 4*	*Tokyo Meteo, J*	*FAX // 3365.0 kHz $*
14699.0	YIX 70	INA Baghdad, IRQ	0900 A nx
14700.0	REB 24	TASS Moscow, RU, URS	0500-2200 E nx

14712.5		RFE Holzkirchen feeder, D	ISB
14719.0	**OST 58**	**Oostende R, BEL**	**SITOR-B: H+15 tfc list**
14720.0	**RKB 58**	**TASS Moscow, RU, URS**	**0600+0700+0800 F nx, 0900+1100+1200 A nx, 1300+1400 F nx, 1500+1900 A nx**
14722.5	**TNL**	**ASECNA Brazzaville, COG**	**24 h ry or msgs [FNA]**
14723.5	**FUG**	**FN La Regine, F**	**0753 ry**
14737.0	*RXO 72*	*Khabarovsk Met., SE, URS*	*FAX // 4516.7 kHz $*
14741.0	**'DOR'**	**MFA Sofia, BUL**	**75 Bd: 1502 encrypted msgs after "DDD..."**
14747.0	**RUZU**	**SAAM Molodezhnaya, ATA**	**0030+1230 wx**
14750.0	**'RFFXI'**	**FF Bangui, CAF**	**ARQ-E 72 Bd: 1645 msg [XZI]**
14760.0	**BAT 93**	**XINHUA Beijing, CHN**	**0200+0300+0700-1600 E nx, 1600 F nx, 1700-2100 E nx**
	CNM 61	**MAP Rabat, MRC**	**1000-1130 F nx, 1200-1400 E nx, 1530-1700 F nx**
14764.0	**A9M 70**	**GNA Manama, BHR**	**75 Bd: 0500-1500 A nx, 1500-1700 E nx, 1700-2100 A nx**
14765.0		Denpasar, INS	SSB
14766.0		*UNID meteo stn. (190)*	*FAX 120/576: 0750 chart*
14775.0	AIC	USAF Clark AFB, L., PHL	SSB
14776.0	**SUC**	**Cairo Air, EGY**	**24 h ry or msgs [EWA]**
14785.0	**ATP 65**	**MEA Delhi, IND**	**0830-1700 E nx**
14786.5	**9PL**	**Kinshasa Air, ZAI**	**1543-0559 ry or msgs**
14789.0		BP Jakarta, INS	SSB
		BP Palembang, INS	SSB
14795.5	**BZM 45**	**XINHUA Beijing, CHN**	**1200+1300 E nx**
14800.0	RKF 64	PTT Moscow, RU, URS	SSB
	3VA 71	**TAP Tunis, TUN**	**1500-1800 F nx**
14807.0	**GXQ**	**BA London, G**	**VFT: 24 h ryi** COMB
14810.0	DFP 59	DW Cologne feeder, D	ISB
14815.4	**HGX 21**	**MFA Budapest, HNG**	**1000 clg HGX 49**
14820.0	RVB 55	R Moscow feeder, RU, URS	SSB
14823.0	**XVN**	**Hanoi Meteo, VTN**	**0030+0340+0615 ry**
14840.0	**MKK**	**RAF London, G**	**VFT: 24 h ryi** COMB
14842.0	*ATV 65*	*Delhi Meteo, IND*	*FAX // 4993.5 kHz $*
14845.0	**GXQ**	**BA London, G**	**VFT: 1131 ryi**
	MKK	**RAF London, G**	**VFT: 1631 ryi**
	MUA	**BA London, G**	**ARQ-M2 96 Bd: A: 1017+1725 encrypted tfc** **B: 1516 encrypted tfc**
14850.0	ROW 26	R Moscow feeder, RU, URS	ISB
14855.0	**MKD**	**RAF Akrotiri, CYP**	**VFT: 1050-2012 ryi** COMB
14859.5	T3Z	R Bairiki fdr., T. At., KIR	SSB
14867.7		**Egyptian E Rome, I**	**SITOR-A: 1617 ATU-A tfc + msg (5lgs) to Cairo**
14875.0	**'RFLI'**	**FF Fort de France, MRT**	**ARQ-E3 48 Bd: 2056 "controle de voie"**
14880.0	**JMG 4**	**Tokyo Meteo, J**	**24 h wx**
14887.0	ZSC	PTT Cape Town, AFS	SSB
14901.0	**CLN 451**	**PL Habana, CUB**	**0600 E nx, 0700 S nx, 1200-2200 E nx**
14903.4	**SAM**	**MFA Stockholm, S**	**SWED-ARQ: 1500 final tfc, s. off**
14909.7		**Egyptian E Tunis, TUN**	**SITOR-A: 0759-1732 ATU-A msg + msg (5lgs) to Cairo**
14912.0	**'DFZG'**	**MFA Belgrade, YUG**	**75 Bd: 0825 ry, 1500+1540+1600 msg (SC nx)**

14916.5	T3Z	R Bairiki fdr., T. At., KIR	SSB
14923.0	BAP 44	XINHUA Beijing, CHN	0000-0300 E nx
14925.0	'RFTJ'	FF Dakar, SEN	ARQ-M2 96 Bd: A: 0456-1955 msgs or msg (F nx) to 'RFTJD' [TJD]
14932.0		APS El Djaza'ir, ALG	0700-1000 A nx, 1000-1200 E nx, 1200-1400 F nx, 1400-1500 A nx, 1500-1600 S nx
14940.0	RIC 71	R Moscow feeder, RU, URS	SSB
14950.0	RWM 79	APN Moscow, RU, URS	100 Bd: 0400 R nx wtsca, 0500+0600+0700 A nx, 0800 R nx wtsca
	RWM 79	R Moscow feeder, RU, URS	SSB
	RXB 75	*Khabarovsk Met., SE, URS*	*(hx 7475.0 kHz)*
14958.1	'RFTJ'	FF Dakar, SEN	ARQ-M2 96 Bd: A: 0154 operational msg to 'RFLI', 0600 "controle de voie" to 'RFLI' [TJI]
14964.0	'RFFXL'	FF Beirut, LBN	ARQ-E 72 Bd: 1020-2142 msgs or "controle de voie" to 'RFFX' [XXL]
14966.5	'U'	Bcn. Murmansk, RU, URS	CW
14966.7		MFA Cairo, EGY	SITOR-A: 1024 final tfc, s. off
14968.0	CMU 967	SN Habana, CUB	CW
14970.0	CLP 1	MFA Habana, CUB	0338+0440+1430+1513+1600 msg to Panama
14970.3	SAM	MFA Stockholm, S	SWED-ARQ: 1129-1313 msgs (5lgs) + tfc to SAM 26
	SAM 26	Swedish E London, G	SWED-ARQ: 1129-1313 tfc to SAM
14975.0	'P6Z'	MFA Paris, F	FEC-A 144 Bd: 2348 ry
14982.5	*RBV 76*	*Tashkent Meteo, UZ, URS*	*FAX // 3690.0 kHz $*
14982.9		VoA Kavalla, GRC	VFT: 75 Bd: 1315 clg + tfc to Greenville
14984.3		VoA Kavalla, GRC	// 14982.9 kHz
14989.0	TNL	ASECNA Brazzaville, COG	0805+1133+1630+1736 msgs [FLA]
			ARQ-M2 96 Bd: B: 1712 msg [BNA]

14990.0 - 15005.0 STANDARD FREQUENCY AND TIME SIGNAL <501>

14990.0	*RDK 23*	*Tbilisi Meteo, GE, URS*	*(hx 7495.0 kHz) 890*
14993.0	WORLDWIDE	MSV SAR OPERATIONS FREQ.	SSB
14996.0	RWM	Moscow TS, RU, URS	CW
15000.0	ATA	Delhi TS, IND	SSB
	BPM	Xi'an TS, CHN	CW/SSB
	BSF	Taipei TS, TAI	CW/SSB
	JJY	Tokyo TS, J	COMB
	LOL 3	AN Buenos Aires TS, ARG	CW/SSB
	RTA	Novosibirsk TS, SW, URS	CW
	WWV	Fort Collins TS, CO, USA	COMB
	WWVH	Kihei TS, Maui Island, HWA	COMB
15004.0	RID	Irkutsk TS, SE, URS	CW

15005.0 - 15010.0 STANDARD FREQUENCY AND TIME SIGNAL + Space Research

15010.0 - 15100.0 AERONAUTICAL MOBILE (OR)

15015.0	AFE 83	USAF Wideawake, ASC	SSB
	AFH	USAF A. AFB, Balboa, PNR	SSB
	AJO	USAF Adana, TUR	SSB
15016.7		**MFA Cairo, EGY**	**SITOR-A: 0820 ATU-A msg (press review), 1042 + 1354 ATU A msgs, 1730 tfc to Paris, 1825 tfc**
15018.0	AFA	USAF A.AFB, C.S.,MD, USA	SSB
15020.0		**SANA Damascus, SYR**	**1600 E nx, 1630 F nx**
15021.7		**MFA Cairo, EGY**	**SITOR-A: 1357 ATU-A msgs**
15023.0	4XZ	IN Haifa, ISR	CW
15024.0	COL	Habana Air, CUB	CW
	RFNV	Moscow Air, RU, URS	CW
15031.0	AFI	USAF MC.AFB, S.,CA, USA	SSB
15035.0	CHR	CF Trenton, ONT, CAN	SSB
	CJX	CF St. John's, NFLD, CAN	SSB
	VXA	CF Edmonton, ALTA, CAN	SSB
15040.0	MKL	RAF Edinburgh, G	CW
15041.0	AFA	USAF A.AFB, C.S.,MD, USA	SSB
15046.0		INTERFLUG Berlin, D	SSB
15050.0	**RBX 56**	**ANGOP Moscow, RU, URS**	**(hx 7525.0 kHz)**
	4XZ	IN Haifa, ISR	CW

15100.0 - 15600.0 BROADCASTING <531>

15462.0		**JANA Tripoli, LBY**	**0800 E nx, 1100 + 1700 F nx, 1800 E nx, 1900 F nx**
15470.0	*CAN 6D*	*Presidente Eduardo Frei Montalva Meteo, CHL*	*FAX // 5302.5 kHz* CW
15485.0	**'GC'**	**USAF Adana, TUR**	**75 Bd: 1053 foxes**
15508.5	**SOP 250**	**PAP Warsaw, POL**	**1700 F nx**
15527.0	*5YE*	*Nairobi Meteo, KEN*	*FAX // 7464.5 kHz $*
15555.0	**LZP 2**	**BTA Sofia, BUL**	**1200 + 1300 E nx**
15566.0	**RTC 26**	**Novosibirsk M., SW, URS**	**0202-1029 wx**
15575.0	**REN 30**	**TASS Moscow, RU, URS**	**0500-1700 E nx**
15593.0	**KRH 51**	**USE London, G**	**75 Bd: 0650-2005 foxes**
15597.0	**KRH 51**	**USE London, G**	**// 15593.0 kHz**

15600.0 - 16360.0 FIXED <536>

15600.0	RBM 76	R Moscow feeder, RU, URS	SSB
15615.0	*AXI 35*	*Darwin Meteo, NT, AUS*	*FAX // 5755.0 kHz $*
15621.1	**VER**	**CF Ottawa, ONT, CAN**	**ARQ-M2 96 Bd: A: 0442 + 1736 + 2215 encrypted tfc**
15630.0	**RWM 72**	**APN Moscow, RU, URS**	**100 Bd: 0500-0900 R nx wtsca**
	RWM 72	R Moscow feeder, RU, URS	SSB
15633.0	**HMF 26**	**KCNA Pyongyang, KRE**	**0400-0530 E nx, 0600-0830 R nx wca, 1000-1200 E nx, 1230-1430 R nx wca**
15635.0	**'RFTJ'**	**FF Dakar, SEN**	**ARQ-M2 96 Bd: A: 1751 + 1821 "controle de voie" to 'RFQP', 1833 msg to 'RFQP' [TJA]**
15640.0		**APN Moscow, RU, URS**	**100 Bd: 0500 E nx, 0600 A nx**
15641.7		**MFA Cairo, EGY**	**SITOR-A: 1932 ATU-A tfc**
15643.0		**MFA Rome, I**	**ARQ-E 96 Bd: 1354 final tfc, s. off**

15647.2	PCW 1	MFA Den Haag, NLD	SITOR-A: 24 h tfc
			CW
15652.0	SNN 299	MFA Warsaw, POL	75 Bd: 0542+0830 ry
15654.5	'U'	Bcn. Murmansk, RU, URS	CW
15656.0	RIT	SN Vaygach, RU, URS	CW
15667.0	FDY	FAF Orleans, F	0819-1713 ry
15670.0	HGM 36	MTI Budapest, HNG	1615 E nx
15675.8	HGX 21	MFA Budapest, HNG	DUP-ARQ: 0740 tfc to Madrid, 1932 msg (5lgs)
15676.2	HGX ..	Hungarian E Madrid, E	DUP-ARQ: 0740 msg to HGX 21
15683.5		MFA Rome, I	SITOR-A: 0813+1513 msg (5lgs)
15684.0	FSB	INTERPOL Paris, F	SITOR-A: 0755-1933 encrypted tfc
			CW
15693.0		APN Moscow, RU, URS	100 Bd: 0700-1100 F nx
15693.5	ISX 56	ANSA Rome, I	0800 E nx, 0900+1100 F nx, 1200 E nx, 1400 F nx, 1500 E nx, 1600 F nx
15696.5	CLN 484	PTT Habana, CUB	ARQ-M2 96 Bd: A: 2033 tfc
15700.0	ZAA	ATA Tirana, ALB	(hx 7850.0 kHz)
15704.5	'U'	Bcn. Murmansk, RU, URS	CW
15705.0	YZJ 6	TANJUG Belgrade, YUG	0900-1700 F nx
15710.0	RED 52	TASS Moscow, RU, URS	0600-1900 F nx
15720.0	RWM 74	APN Moscow, RU, URS	100 Bd: 0700 R nx wtsca, 0800 E nx, 0900 R nx wtsca
	RWM 74	R Moscow feeder, RU, URS	SSB
15731.0		SUNA Khartoum, SDN	1000+1415 A nx, 1600 E nx, 1700 A nx
15737.0	GYU	RN Gibraltar, GIB	VFT: 1312+1910 tfc
			COMB
15744.0	XVN 36	VNA Hanoi, VTN	0500+0700+0800 E nx
15750.0	RWM 73	R Moscow feeder, RU, URS	SSB
15752.7	CNM 66X2	MAP Rabat, MRC	1000-1130 F nx, 1200-1400 E nx, 1530-1700 F nx
15775.0		RFE Holzkirchen feeder, D	ISB
15780.0	WQB 35	USLRC Akron, OH, USA	SITOR-A: 1707+1837 tfc to ELE 25
15792.2	TNB 82	OTIC Brazzaville, COG	SSB
15794.0	TAD	MFA Ankara, TUR	FEC-A 144 Bd: 0951 msg, 1555 msg (5lgs) + tfc
15795.5	TNB 82	OTIC Brazzaville, COG	SSB
		Italian E Ankara, TUR	SITOR-A: 1350 msgs (5lgs) + tfc to Rome
15809.0	'K'	Bcn. Khabarovsk, SE, URS	CW
15817.0	NPM	USN Pearl Harbour, HWA	75 Bd: 0812+0945 tfc + msg
15830.0	RUZU	SAAM Molodezhnaya, ATA	0100+0700+1300+1500 ry, wx
			FAX // 10142.0 kHz
15837.5	VER	CF Ottawa, ONT, CAN	ARQ-M2 96 Bd: A: 1833+1935 encrypted tfc
15845.0	SUA 289	MENA Cairo, EGY	0200+0600-2200 A nx
15856.6	DMK	MFA Bonn, D	ARQ-E 96 Bd: 1417 tfc
15860.0	'RFFXI'	FF Bangui, CAF	ARQ-E 72 Bd: 0537+0742 msg, 1700 msg (F nx) [XZI]
15866.5	LOL	AN Buenos Aires, ARG	0500 ry
15870.0	AJE	USAF AWS Croughton, G	75 Bd: 0421+1930+2325 wx
15873.0	'P6Z'	MFA Paris, F	75 Bd: 1533 to 'J5W', 1604 msgs
15878.0	*3MA 24*	*CNA Taipei, TAI*	*FAX // 5117.0 kHz*
			CW

15901.0	GYE	RN London, G	VFT: ARQ-M2 96 Bd: B: 0913-1744 encrypted tfc COMB
15904.5		UNID station (1190)	SITOR-A: 2031 final tfc "we'll make it midnight ok ararar", s. off
15910.0	RGG 43	APN Moscow, RU, URS	100 Bd: 0700-1200 E nx
15912.2	'D2Z'	French E Budapest, HNG	75 Bd: 0915 msg (5lgs) to 'RFGW', final tfc, s. off
15916.7		MFA Cairo, EGY	SITOR-A: 1640 ATU-A msg
15920.0	CFH	CF Halifax, NS, CAN	CW
15923.0	*NPO*	*USN Subic Bay, PHL*	*FAX // 5258.0 kHz $*
15930.0	RBI 78	TASS Moscow, RU, URS	0415-0545 E nx, 0600-2000 F nx
15932.0	PWZ	BN Rio de Janeiro, B	75 Bd: 0000 msgs to 5KM, 2255 clg + msgs to YWM
15935.0	SUA 291	MENA Cairo, EGY	0600 E nx, 0900 F nx, 1000 E nx, 1100 F nx, 1200 E nx, 1300 F nx, 1400 E nx, 1500 F nx, 1600 + 1700 + 1900 + 2000 E nx, 2100 + 2200 F nx
15936.5		MFA Rome, I	SITOR-A: 0825 tfc
15938.7		MFA Cairo, EGY	SITOR-A: 0911 ATU-A msg, 1729 ATU-A tfc
15940.0	ELE 25	USLRC Harbel, LBR	SITOR-A: 1236 tfc, 1420-1930 msgs to WQB 35
15941.0	OMZ	MFA Prague, TCH	75 Bd: 0905 msg
15945.0	GXQ	BA London, G	VFT: 0538-1917 ryi
	JAM 55	KYODO Tokyo, J	0900 E nx
15950.0	CXR	UN Montevideo, URG	75 Bd: 2009-2200 ry or clg 5KM
	JJD	RRL Tokyo, J	CW
	RBI 77	*Moscow Meteo, RU, URS*	*FAX // 2815.0 kHz $*
15955.0	3BT 4	Vacoas Meteo, MAU	0030 + 0330 + 0630 + 0930 + 1230 + 1530 + 1830 wx to NKW
15965.0	*BDF*	*Shanghai Meteo, CHN*	*FAX // 7420.0 kHz*
15965.5	EAE 220	MFA Madrid, E	SITOR-A: 0933 tfc
15969.5	OMZ	MFA Prague, TCH	75 Bd: 1852 ry
15980.0	CLP 18	Cub. E Dar es S., TZA	0838 msg (5fgs) to CLP 1
15992.0	4UZ	UNO Geneva, SUI	75 Bd: 0349-1906 ry or msgs + tfc to 4US
15994.3	4UNQ	UNIFIL Enn Naqoura, LBN	75 Bd: 1405 clg + tfc to 4UN
16000.0	CNM 69.1X	MAP Rabat, MRC	1000-1130 F nx, 1200-1400 E nx, 1530-1700 F nx
16008.7		Egyptian E Tunis, TUN	SITOR-A: 1644 ATU-A msgs to Cairo
16012.6	'RFVI'	FF Le Port, REU	ARQ-M2 96 Bd: B: 0908 msg to 'RFQP', 1315 "controle de voie" to 'RFQP' [FKN]
16015.0	'DOR'	MFA Sofia, BUL	0709 ry, 0915 + 1008 msg, 1132 encrypted msg, 1307 tfc 75 Bd: 1130 tfc, ry
16016.0	RMP	SN Kaliningrad, RU, URS	CW
16016.3		German E Accra, GHA	ARQ-E 96 Bd: 1250 msgs to DMK, s. off
		German E Safat, KWT	ARQ-E 96 Bd: 0753 msg to DMK
16017.4	DFQ 21L1	PIAB Bonn, D	FEC-A 96 Bd: 0900 + 1430 + 1500 + 1600 + 2200 G nx
16020.0	RHA 42	APN Moscow, RU, URS	100 Bd: 0600 A nx, 0700 F nx, 0800 A nx, 0900 + 1000 F nx, 1100 A nx
	RHA 42	R Moscow feeder, RU, URS	SSB

16023.0	**TAD**	**MFA Ankara, TUR**	**FEC-A 144 Bd: 1613 msgs**
16025.0	*BAF 9*	*Beijing Meteo, CHN*	*FAX // 5527.0 kHz $*
16029.6	*NPN*	*USN Apra Harbour, GUM*	*FAX // 5262.0 kHz $*
16031.4	**RBI 75**	**PTT Moscow, RU, URS**	**ARQ-M2 96 Bd: A: 0723 + 0907 + 1315 tfc to Kabul, 1908 encrypted tfc [MAF] B: 1320 to Kabul**
16032.8	**RBI 75**	**PTT Moscow, RU, URS**	**ARQ-M2 96 Bd: A: 0358 to Kabul**
16040.0	**RTT 40**	**APN Moscow, RU, URS**	**100 Bd: 0400-0900 A nx, 0900 + 1000 F nx**
16041.3	AJE	USAF Croughton, G	SSB
16042.0	**'RPTIH'**	**PN Horta, AZR**	**0925 foxes, 2115 clg 'RPFNN'**
16050.0	**RCE 54**	**TASS Moscow, RU, URS**	**0600-1800 E nx**
	7UP 5	PTT El Djaza'ir, ALG	SSB
16060.0	**RFM 27**	**APN Moscow, RU, URS**	**100 Bd: 0600 + 0700 A nx, 1000 P nx, 1300 A nx**
16065.0	ZLX 44	GPO Wellington, NZL	SSB
		RFE Holzkirchen feeder, D	ISB
		Satun, THA	SSB
16066.8	**IRO 30**	**ANSA Rome, I**	**1700 + 1800 E nx**
16070.0	**CLP 18**	**Cub. E Dar es S., TZA**	**0600 clg CLP 1**
16071.7		**MFA Cairo, EGY**	**SITOR-A: 0820 ATU-A msg**
16075.0		**APN Moscow, RU, URS**	**75 Bd: 0700-1200 E nx**
16076.0	**'RFFA'**	**MOD Paris, F**	**ARQ-E3 48 Bd: 1407 msgs to 'RFTJD' [ITF]**
16082.0	UGC	Tyumen', SW, URS	CW
16085.0	**RND 71**	**APN Moscow, RU, URS**	**100 Bd: 0500 + 0600 R nx wtsca, 0700 + 0800 E nx**
16091.0	**LOL**	**AN Buenos Aires, ARG**	**75 Bd: 0106 tfc, 1850 clg EBA**
16093.0	**OBC**	**PN Callao, PRU**	**75 Bd: 2030 msgs to 'AIG 1001', 2138 msg (5lgs), final tfc, s. off**
16103.6	**LBL 1**	**Norw. UNIFIL Beirut, LBN**	**SITOR-A: 0730 + 1250 tfc**
16105.0		Galawa Sun Hotel, COM	SSB
16106.0	**FZM 62**	**DIPLO Noumea, NCL**	**0100-1300 F nx**
16111.1	**HBD 20**	**MFA Berne, SUI**	**SITOR-A: 1139 tfc to HBD 42, 1237-1550 tfc**
	HBD 59	**Swiss E Ankara, TUR**	**SITOR-A: 0548 + 0755 + 1000 tfc to HBD 20**
16112.0	**TAD**	**MFA Ankara, TUR**	**FEC-A 144 Bd: 1841 msg**
			CW
16115.0	*GYA*	*RN London, G*	*FAX // 8334.0 kHz $*
16117.0	**6VK 317**	**PANA Dakar, SEN**	**0800-1900 E or F nx**
16120.0	**HBD 20**	**MFA Berne, SUI**	**SITOR-A: 0800 msg (F/G nx)**
16125.2	**'RFQP'**	**FF Jibuti, DJI**	**ARQ-M2 200 Bd: A: 0717-1853 msgs or encrypted tfc after "KKKK..." to 'RFFA' [QPA, QPB] B: 0716-1148 + 1853 msgs or encrypted tfc after "KKKK..." or "controle de voie" to 'RFFA' [QPA, QPC]**
16131.7		**Egyptian E Rome, I**	**SITOR-A: 1553 msg (5lgs) to Cairo**
16135.0	*KVM 70*	*Honolulu Meteo, HWA*	*FAX // 9982.5 kHz $*
	RBI 72	**APN Moscow, RU, URS**	**100 Bd: 0400 A nx, 0600 + 0700 R nx wtsca, 0800 P nx, 0900 + 1000 R nx wtsca**
16136.0	**BZR 66**	**XINHUA Beijing, CHN**	**75 Bd: 0600-1500 E nx**
	SPW	Warsaw R, POL	SSB
16136.7		**Eg. E El Djaza'ir, ALG**	**SITOR-A: 1527 ry, msg to Cairo**
16140.0	**RGW 28**	**TASS Moscow, RU, URS**	**0600-1700 + 2100 E nx**

16145.0	RWM 77	APN Moscow, RU, URS	100 Bd: 0400-1500 E nx
16147.7	'RFPTC'	FF N'djamena, TCD	ARQ-M2 200 Bd: A: 1923 operational msg
16148.0	MKD	RAF Akrotiri, CYP	VFT: 0434-2057 ryi COMB
16150.0	9VF 205	JIJI Singapore, SNG	1330 E nx
16151.7		MFA Cairo, EGY	SITOR-A: 1128 ATU-A tfc, 1530 ATU-A msg + tfc, s. off
16155.0	'U'	Bcn. Murmansk, RU, URS	CW
		APN Moscow, RU, URS	100 Bd: 0400+0500 A nx, 0600 F nx, 0700+0800+0900 A nx
16156.5		MFA Rome, I	SITOR-A: 1247 final tfc
16158.0		UNID station (1190)	ARQ-E 192 Bd: 0638 encrypted tfc
16165.2	'RFFA'	MOD Paris, F	ARQ-M2 200 Bd: A: 0617-2027 msgs or "revue de presse quotidienne" (F nx) or encrypted tfc after "KKKK..." to 'RFQP' [FDXA] B: 0617+1047 msgs [PQB]
16167.7	OST ..	Oostende R, BEL	CW (sp fm ?)
16171.7		Egyptian E Rome, I	SITOR-A: 1057 msg (5lgs) + ATU-A msg to Cairo SITOR-B: 1649 tfc to Cairo
16176.0	RMP	SN Kaliningrad, RU, URS	CW
16178.0	'PHWR'	USAF H. AFB, Hon., HWA	75 Bd: 0030+2108 wx
16180.0	NAM	USN Norfolk, VA, USA	CW
16182.0	*'PHWR'*	*USAF H. AFB, Hon., HWA*	*FAX $*
16183.0		UNID meteo station (990)	1600+1640+1655 wx fm CHN, COG, DJI, ETH, LBN, ZMB
16190.0	RGW 26	TASS Moscow, RU, URS	0600-1645 F nx, 1700 A nx
16193.2	'RFQP'	FF Jibuti, DJI	ARQ-M2 200 Bd: A: 1834 msg to 'RFFA'
16203.5	STK	Khartoum Air, SDN	1504+1654 msgs [SEA]
16203.7		MFA Cairo, EGY	SITOR-A: 0620 ATU-A msg (press review), 0630 tfc to Moscow
16211.7		MFA Cairo, EGY	SITOR-A: 0617+0635 ATU-A msgs
16215.0	RCF 47	APN Moscow, RU, URS	100 Bd: 0600 A nx, 0800 R nx wtsca
	RCF 47	PTT Moscow, RU, URS	SSB
16219.0	NDT	USN Yokosuka, J	COMB
16220.0	RBI 74	PTT Moscow, RU, URS	ARQ-M2 96 Bd: B: 1428 to Habana
16224.0	3MA 35	CNA Taipei, TAI	0230-0330+0930-1030+1330-1500 E nx
16225.0	7CB	IN Belawan, INS	CW
16226.5	'RFFXI'	FF Bangui, CAF	ARQ-E 72 Bd: 1630+1705+1955 msg to 'RFFX' [XZI]
16230.0	*JAQ 66*	*KYODO Tokyo, J*	*FAX 60/576: 0700-0943+1409-1820+2344 J nx (text) or wx charts with E text*
16233.5		MFA Rome, I	SITOR-A: 0738 msgs (5lgs)
16234.3	4UZ	UNO Geneva, SUI	75 Bd: 0609 msgs to 4UF, ry; 0735 ry, 0938 clg 4UF, 1545 ry
16235.2	YAB 9	PTT Kabul, AFG	ARQ-M2 96 Bd: A: 0713 Bakhtar clg TASS, 1050 to Moscow
16236.6	YAB 9	PTT Kabul, AFG	ARQ-M2 96 Bd: B: 0407+0623 to Moscow

16242.5	PWZ	BN Rio de Janeiro, B	0100 clg 'RPFN', 2240 clg YWM
16244.5		VoA Greenvl. fdr., NC, USA	SSB
16245.0	5ST	ASECNA Antanan., MDG	CW
	5YD	Nairobi Air, KEN	CW
	'DJR'	Jibuti Air, DJI	CW
16246.8		VoA Tanger, MRC	VFT: 75 Bd: 1506 clg Greenville
16248.1		VoA Tanger, MRC	// 16246.8 kHz
16248.5	DMK	MFA Bonn, D	ARQ-E 96 Bd: 1428 tfc to Athens
16250.0	RME 22	APN Moscow, RU, URS	100 Bd: 0400-1000 E nx
	RME 22	R Moscow feeder, RU, URS	ISB
16252.0	TAD	MFA Ankara, TUR	FEC-A 144 Bd: 1440 tfc
16260.0	REM 57	TASS Moscow, RU, URS	0600-1900 F nx
16265.0	DHJ 59	GN Wilhelmshaven, D	CW
	SDK 3	ST Stockholm, S	SITOR-A: 0632-2218 tts
	9VF 206	ANSA Singapore, SNG	1700 E nx
16270.0	*9VF 207*	*KYODO Singapore, SNG*	*FAX // 16230.0 kHz*
16271.0	'U'	Bcn. Murmansk, RU, URS	CW
16277.5	FDY	FAF Orleans, F	CW
16280.0	MKD	RAF Akrotiri, CYP	VFT: 24 h ryi COMB
	RKD 41	PTT Moscow, RU, URS	SSB
16286.0		Malaysian E Jeddah, ARS	SITOR-A: 0737 tfc to Kuala Lumpur
		MFA Kuala Lumpur, MLA	SITOR-A: 0737 msg to Jeddah
16291.0	'RFFX'	FF Versailles, F	ARQ-E 72 Bd: 0200 "controle de voie" to 'RFFXL', 1708 msg to 'RFFXL' [XXL]
16295.0	'DFZG'	MFA Belgrade, YUG	75 Bd: 0630 msg (SC nx)
16296.0	RCV	SN Moscow, RU, URS	CW
16299.0	'DFZG'	MFA Belgrade, YUG	FEC-A 144 Bd: 1135 encrypted msg, final tfc, s. off
16300.0	RMD 59	APN Moscow, RU, URS	100 Bd: 0600 A nx, 0900-1300 P nx
	ZRS	PTT Transvaal Cove, MRN	SSB
16302.0	'DFZG'	MFA Belgrade, YUG	75 Bd: 0630 ry, 1400 msg (F nx), 1500 + 1513 + 1530 msg (SC nx), 1600 msg (E nx), 1622 encrypted msg after "XPXPXP..."
16305.0	'BRTH'	French E Beirut, LBN	FEC-A 192 Bd: 1920 msgs (5lgs) to 'P6Z' [BRTX]
16312.5		UNID station (890)	ARQ-E 192 Bd: 0629 + 1034 + 1608 + 1738 encrypted tfc
16317.0	*5YE*	*Nairobi Meteo, KEN*	*FAX // 7464.5 kHz $*
16318.7		MFA Cairo, EGY	SITOR-A: 0759-1608 ATU-A msgs
16323.0	OVG 16	DM Frederikshavn, DNK	CW
	'RFTJD'	FF Douala, CME	ARQ-E3 48 Bd: 1741 msg to 'RFTJ' [JDJ]
16329.0		MFA Riyadh, ARS	SAU-FEC 164 Bd: 1422 ATU-A msgs to London
16330.0	RKA 75	R Moscow feeder, RU, URS	SSB
16333.0		German E Athens, GRC	ARQ-E 96 Bd: 0815 msg to DMK
		German E Lagos, NIG	ARQ-E 96 Bd: 0700 clg DMK
16335.0	FZS 63	Saint Denis Meteo, REU	1315 + 1530 wx *FAX // 8176.0 kHz $*
16339.0	7RQ 20	MFA El Djaza'ir, ALG	CW
16339.5	'CJL'	MFA Nicosia, CYP	ARQ-E 96 Bd: 0657 ry, tfc, msgs (5lgs), 0720 final tfc, s. off; 1513 + 1610 msg (5lgs)

16340.0	RDN 25	R Moscow feeder, RU, URS	SSB
16340.1	*ZKLF*	*Auckland Meteo, NZL*	*FAX // 5807.0 kHz $* CW
16343.0	**YZI 4**	**TANJUG Belgrade, YUG**	**0400 + 0700 + 0800 + 0900 + 1000 + 1300 E nx, 1400 + 1700 F nx**
16346.7		**MFA Cairo, EGY**	**SITOR-A: 0705-1658 ATU-A tfc**
16347.0	**'RPFNN'**	**PN Lisbon, POR**	**1515 ry, clg + tfc to 'RPTIH'**
16348.0	**CLN 530**	**PL Habana, CUB**	**1200-2300 E nx**
16351.7		**Egyptian E Delhi, IND**	**SITOR-A: 1243 ATU-A tfc to Cairo**
16352.0	**BCC 22**	**PTT Shanghai, CHN**	**2200 clg Yangon**

16360.0 - 17410.0 MARITIME MOBILE <500A 500B 520B 529A 532>

16363.0	KKN 50	MFA Washington, DC, USA	CW	
16370.0	**OMZ**	**MFA Prague, TCH**	**75 Bd: 0733 msg (5fgs), 0825 + 1107 msgs, 1509 msg (5fgs)**	
	RSF 27	R Moscow feeder, RU, URS	SSB	
16375.0	**8WB 4**	**Indian E Tehran, IRN**	**0725 + 1219 msg to Delhi**	
16376.0	RCV	SN Moscow, RU, URS	CW	
16383.0	**'VNA 30'**	**VNA Hanoi, VTN**	**1200 + 1300 F nx**	
16385.0		MFA Islamabad, PAK	SSB	
16386.7		**MFA Islamabad, PAK**	**SITOR-A: 0936 + 0945 + 1328 tfc**	
16390.0		**MFA Islamabad, PAK**	**0727 msgs to Jeddah**	
16394.0	**IDR**	**IN Rome, I**	**0704 tfc to 'BDTB'**	
16410.0	*NAM*	*USN Norfolk, VA, USA*	*FAX // 3357.0 kHz $*	
16414.5	**8WD 2**	**MFA Delhi, IND**	**0843 tfc**	
16420.0	WORLDWIDE	DISTRESS AND SAFETY FREQ.	SSB	
16425.0	ZRP	Sanae Base, ATA	SSB	
16435.0	*BDF*	*Shanghai Meteo, CHN*	*FAX // 7420.0 kHz*	
16453.0		**UNID station (990)**	**ARQ-E 192 Bd: 1702 encrypted tfc**	
16453.5	**HGX 21**	**MFA Budapest, HNG**	**DUP-ARQ: 0845 + 0856 tfc**	
16457.5	NMO	USCG Honolulu, HWA	CW	
16458.0	KRH 50	USE London, G	CW	
16460.0		ship stations, ch 1601	SSB	QSX 17232.9 kHz
16463.1		ship stations, ch 1602	SSB	QSX 17236.0 kHz
16466.2		ship stations, ch 1603	SSB	QSX 17239.1 kHz
16469.3		ship stations, ch 1604	SSB	QSX 17242.2 kHz
16472.4		ship stations, ch 1605	SSB	QSX 17245.3 kHz
16475.5		ship stations, ch 1606	SSB	QSX 17248.4 kHz
16478.6		ship stations, ch 1607	SSB	QSX 17251.5 kHz
16481.7		ship stations, ch 1608	SSB	QSX 17254.6 kHz
16484.8		ship stations, ch 1609	SSB	QSX 17257.7 kHz
16487.9		ship stations, ch 1610	SSB	QSX 17260.8 kHz
16491.0		ship stations, ch 1611	SSB	QSX 17263.9 kHz
16494.1		ship stations, ch 1612	SSB	QSX 17267.0 kHz
16497.2		ship stations, ch 1613	SSB	QSX 17270.1 kHz
16500.3		ship stations, ch 1614	SSB	QSX 17273.2 kHz
16503.4		ship stations, ch 1615	SSB	QSX 17276.3 kHz
16506.5		ship stations, ch 1616	SSB	QSX 17279.4 kHz
16509.6		ship stations, ch 1617	SSB	QSX 17282.5 kHz
16512.7		ship stations, ch 1618	SSB	QSX 17285.6 kHz
16515.8		ship stations, ch 1619	SSB	QSX 17288.7 kHz
16518.9		ship stations, ch 1620	SSB	QSX 17291.8 kHz
	WCM	Withamsville R, OH, USA		
16522.0		ship stations, ch 1621 (WORLDWIDE CALLING FREQ.)	SSB	QSX 17294.9 kHz

16525.1		ship stations, ch 1622	SSB	QSX 17298.0 kHz
16528.2		ship stations, ch 1623	SSB	QSX 17301.1 kHz
16531.3		ship stations, ch 1624	SSB	QSX 17304.2 kHz
16534.4		ship stations, ch 1625	SSB	QSX 17307.3 kHz
16537.5		ship stations, ch 1626	SSB	QSX 17310.4 kHz
16540.6		ship stations, ch 1627	SSB	QSX 17313.5 kHz
16543.7		ship stations, ch 1628	SSB	QSX 17316.6 kHz
16546.8		ship stations, ch 1629	SSB	QSX 17319.7 kHz
16549.9		ship stations, ch 1630	SSB	QSX 17322.8 kHz
16553.0		ship stations, ch 1631	SSB	QSX 17325.9 kHz
16556.1		ship stations, ch 1632	SSB	QSX 17329.0 kHz
16559.2		ship stations, ch 1633	SSB	QSX 17332.1 kHz
16562.3		ship stations, ch 1634	SSB	QSX 17335.2 kHz
16565.0		Roseau Port R, DMA	SSB	
16565.4		ship stations, ch 1635	SSB	QSX 17338.3 kHz
16568.5		ship stations, ch 1636	SSB	QSX 17341.4 kHz
16571.6		ship stations, ch 1637	SSB	QSX 17344.5 kHz
16572.0	HOR 24	REFPA Panama R, PNR	SSB	
16574.7		ship stations, ch 1638	SSB	QSX 17347.6 kHz
16577.8		ship stations, ch 1639	SSB	QSX 17350.7 kHz
16580.9		ship stations, ch 1640	SSB	QSX 17353.8 kHz
16584.0		ship stations, ch 1641	SSB	QSX 17356.9 kHz
16587.1	WORLDWIDE	COAST AND SHIP STATIONS SIMPLEX FREQUENCY	SSB	
16590.2	WORLDWIDE	COAST AND SHIP STATIONS SIMPLEX FREQUENCY	SSB	
16593.3	WORLDWIDE	COAST AND SHIP STATIONS SIMPLEX FREQUENCY	SSB	
16626.7		MFA Cairo, EGY	SITOR-A: 1548 ATU-A tfc	
16660.5		ship stations, channel 1	QSX 17197.5 kHz	
16661.0		ship stations, channel 2	QSX 17198.0 kHz	
16661.5		ship stations, channel 3	QSX 17198.5 kHz	
16662.0		ship stations, channel 4	QSX 17199.0 kHz	
16662.5		ship stations, channel 5	QSX 17199.5 kHz	
16663.0		ship stations, channel 6	QSX 17200.0 kHz	
16663.5		ship stations, channel 7	QSX 17200.5 kHz	
16664.0		ship stations, channel 8	QSX 17201.0 kHz	
16664.5		ship stations, channel 9	QSX 17201.5 kHz	
16665.0		ship stations, channel 10	QSX 17202.0 kHz	
16665.5		ship stations, channel 11	QSX 17202.5 kHz	
16666.0		ship stations, channel 12	QSX 17203.0 kHz	
16666.5		ship stations, channel 13	QSX 17203.5 kHz	
16667.0		ship stations, channel 14	QSX 17204.0 kHz	
16667.5		ship stations, channel 15	QSX 17204.5 kHz	
16668.0		ship stations, channel 16	QSX 17205.0 kHz	
16668.5		ship stations, channel 17	QSX 17205.5 kHz	
16669.0		ship stations, channel 18	QSX 17206.0 kHz	
16669.5		ship stations, channel 19	QSX 17206.5 kHz	
16670.0		ship stations, channel 20	QSX 17207.0 kHz	
16670.5		ship stations, channel 21	QSX 17207.5 kHz	
16671.0		ship stations, channel 22	QSX 17208.0 kHz	
16671.5		ship stations, channel 23	QSX 17208.5 kHz	
16672.0		ship stations, channel 24	QSX 17209.0 kHz	
16672.5		ship stations, channel 25	QSX 17209.5 kHz	
16673.0		ship stations, channel 26	QSX 17210.0 kHz	
16673.5		ship stations, channel 27	QSX 17210.5 kHz	
16674.0		ship stations, channel 28	QSX 17211.0 kHz	
16674.5		ship stations, channel 29	QSX 17211.5 kHz	
16675.0		ship stations, channel 30	QSX 17212.0 kHz	
16675.5		ship stations, channel 31	QSX 17212.5 kHz	

16676.0		**ship stations, channel 32**	**QSX 17213.0 kHz**
16676.5		**ship stations, channel 33**	**QSX 17213.5 kHz**
16677.0		**ship stations, channel 34**	**QSX 17214.0 kHz**
16677.5		**ship stations, channel 35**	**QSX 17214.5 kHz**
16678.0		**ship stations, channel 36**	**QSX 17215.0 kHz**
16678.5		**ship stations, channel 37**	**QSX 17215.5 kHz**
16679.0		**ship stations, channel 38**	**QSX 17216.0 kHz**
		ship stations	**QSX 17427.5 kHz (OFA)**
16679.5		**ship stations, channel 39**	**QSX 17216.5 kHz**
16680.0		**ship stations, channel 40**	**QSX 17217.0 kHz**
16680.5		**ship stations, channel 41**	**QSX 17217.5 kHz**
16681.0		**ship stations, channel 42**	**QSX 17218.0 kHz**
16681.5		**ship stations, channel 43**	**QSX 17218.5 kHz**
16682.0		**ship stations, channel 44**	**QSX 17219.0 kHz**
16682.5		**ship stations, channel 45**	**QSX 17219.5 kHz**
16683.0		**ship stations, channel 46**	**QSX 17220.0 kHz**
16683.5		**ship stations, channel 47**	**QSX 17220.5 kHz**
16684.0		**ship stations, channel 48**	**QSX 17221.0 kHz**
16684.5		**ship stations, channel 49**	**QSX 17221.5 kHz**
16685.0		**ship stations, channel 50**	**QSX 17222.0 kHz**
16685.5		**ship stations, channel 51**	**QSX 17222.5 kHz**
16686.0		**ship stations, channel 52**	**QSX 17223.0 kHz**
16686.5		**ship stations, channel 53**	**QSX 17223.5 kHz**
16687.0		**ship stations, channel 54**	**QSX 17224.0 kHz**
16687.5		**ship stations, channel 55**	**QSX 17224.5 kHz**
16688.0		**ship stations, channel 56**	**QSX 17225.0 kHz**
16688.5		**ship stations, channel 57**	**QSX 17225.5 kHz**
16689.0		**ship stations, channel 58**	**QSX 17226.0 kHz**
16689.5		**ship stations, channel 59**	**QSX 17226.5 kHz**
16690.0		**ship stations, channel 60**	**QSX 17227.0 kHz**
16690.5		**ship stations, channel 61**	**QSX 17227.5 kHz**
16691.0		**ship stations, channel 62**	**QSX 17228.0 kHz**
16691.5		**ship stations, channel 63**	**QSX 17228.5 kHz**
16692.0		**ship stations, channel 64**	**QSX 17229.0 kHz**
16692.5		**ship stations, channel 65**	**QSX 17229.5 kHz**
16693.0		**ship stations, channel 66**	**QSX 17230.0 kHz**
16693.5		**ship stations, channel 67**	**QSX 17230.5 kHz**
16694.0		**ship stations, channel 68**	**QSX 17231.0 kHz**
16694.5		**ship stations, channel 69**	**QSX 17231.5 kHz**
16695.0		**ship stations, non-paired**	
	WORLDWIDE	NBDPT DISTR. AND SAFETY F.	
		ship stations	**QSX 16882.5 kHz (GKS 6)**
	VTP	IN Vishakhapatnam, IND	CW
16695.5		**ship stations, non-paired**	
16696.0		**ship stations, non-paired**	
16696.5		**ship stations, non-paired**	
16697.0		**ship stations, non-paired**	
16697.5		**ship stations, non-paired**	
16698.0		**ship stations, non-paired**	
16698.5		**ship stations, non-paired**	
16699.0		**ship stations, non-paired**	
16699.5		**ship stations, non-paired**	
16700.0		**ship stations, non-paired**	
16700.5		**ship stations, non-paired**	
		ship stations	**QSX 17024.0 kHz (SAB 83)**
16701.0		**ship stations, non-paired**	
16701.5		**ship stations, non-paired**	
		ship stations	**QSX 18993.5 kHz (SPW)**
16702.0		**ship stations, non-paired**	
16702.5		**ship stations, non-paired**	

16703.0		**ship stations, non-paired**	
16703.5		**ship stations, non-paired**	
16704.0		**ship stations, non-paired**	
16704.5		**ship stations, non-paired**	
16705.0		**ship stations, non-paired**	
16705.5		**ship stations, non-paired**	
16720.8		ship stations calling, ch 1	CW
16722.4		ship stations calling, ch 2	CW
16724.0		ship stations calling, ch 3	CW
16725.6		ship stations calling, ch 4	CW
16727.2		ship stations calling, ch 5	CW
16728.8		ship stations calling, ch 6	CW
16730.4		ship stations calling, ch 7	CW
16732.0		ship stations calling, ch 8	CW
16733.6		ship stations calling, ch 9	CW
16735.2		ship stations calling, ch 10	CW
16736.8		ship stations calling, ch 11	CW
16738.4		ship stations calling, ch 12	CW
16740.0		ship stations calling, ch 13	CW
16741.6		ship stations calling, ch 14	CW
16743.2		ship stations calling, ch 15	CW
16744.8		ship stations calling, ch 16	CW
16746.4		ship stations calling, ch 17	CW
16748.0		ship stations calling, ch 18	CW
16750.5	**WORLDWIDE**	**SHIP STATIONS DSC FREQUENCY**	
16751.0	**WORLDWIDE**	**SHIP STATIONS DSC FREQUENCY**	
16784.5		**ship stations**	**QSX 19012.0 kHz (OST)**
16799.0		**ship stations**	**QSX 17214.0 kHz (UTA)**
16804.5	**WORLDWIDE**	**DSC DISTRESS AND SAFETY F.**	
16806.5	**WORLDWIDE**	**NBDPT MSI FREQUENCY**	
16851.0	CBV	DGTMMM Valpar. R, CHL	CW
16860.8	HZG	Dammam R, ARS	CW
16861.5	5OW	Lagos R, NIG	CW
16861.7	PKB	Belawan R, INS	CW
	PKD	Surabaya R, INS	CW
	PKX	Jakarta R, INS	CW
	SPE 82	Szczecin R, POL	CW
	WNU	Slidell R, LA, USA	CW
16862.5	XSV	Tianjin R, CHN	CW
16863.5	CLS	Habana F R, CUB	CW
16865.0	UJY	Kaliningrad R, RU, URS	CW
16866.0	LZL 6	Bourgas R, BUL	CW
16867.5	UXN	Arkhangelsk R, RU, URS	CW
16868.0	A4M	Muscat R, OMA	CW
16868.5	9VG 53	Singapore R, SNG	CW
16869.0	HPP	Panama R, PNR	CW
16870.0	RIT	SN Vaygach, RU, URS	CW
	UJY	**Kaliningrad R, RU, URS**	**0800-1707 R ry or tts wtsca**
16870.4	DZJ	Bulacan R, PHL	CW
16870.5	LSA	Boca R, ARG	CW
16871.3	CWA	Cerrito R, URG	CW
	KLC	Galveston R, TX, USA	CW
16873.0	TIM	Limon R, CTR	CW
16874.0	ZSD 52	Durban R, AFS	CW
16876.0	FUG	FN La Regine, F	CW
16877.5	JDB	Nagasaki R, J	CW
	ZLO 6	RNZN Waiouru, NZL	CW
16878.0	**URB 2**	**Klaipeda R, LI, URS**	**0627-1823 R tts wtsca**
			CW
16879.0	ICB	Genova R, I	CW

16880.0	A7D	Doha R, QAT	CW
	YIR	Basrah Control R, IRQ	CW
16880.9	NMC	USCG S. Franc., CA, USA	CW
16881.0	ICB	Genova R, I	CW
16882.5	*GKS 6*	*Portishead R, G*	*scheduled; QSX 16695.0 kHz*
16883.0	JOU	Nagasaki R, J	CW
16884.0	5BA	Nicosia R, CYP	CW
16884.5	XSQ 7	Guangzhou R, CHN	CW
16885.7	**UJY**	**Kaliningrad R, RU, URS**	**1723 + 1742 R tts wtsca**
16886.0	PPL	Belem R, B	CW
16887.5	SPH 81	Gdynia R, POL	CW
16889.0	PPJ	Juncao R, B	CW
16890.5	UFN	Novorossiysk R, RU, URS	CW
16890.8	ZSC 39	Cape Town R, AFS	CW
16892.9	Y5M	Rügen R, D	CW
16895.5	IAR 7	Rome R, I	CW
16897.5	OMC	Bratislava R, TCH	CW
	OMK	Komarno R, TCH	CW
	OXZ 82	Lyngby R, DNK	CW
16902.5	DYP	Cebu R, PHL	CW
	PCH 60	Scheveningen R, NLD	CW
	PW.	many BN stations, B	CW
16903.0	SVM 6	Athens R, GRC	CW
16904.6	FUV	FN Jibuti, DJI	CW
16904.9	CW./..	many UN stations, URG	CW
	WCC	Chatham R, MA, USA	CW
16906.0	YIR	Basrah Control R, IRQ	CW
16907.3	Y5M	Rügen R, D	CW
16908.0	PPO	Olinda R, B	CW
16909.7	TFA	Reykjavik R, ISL	CW
	UJO 5	Izmail R, UK, URS	CW
16910.0	HLJ	Soul R, KOR	CW
16911.0	JNA	JN Tokyo, J	CW
16912.0	SUH 5	Alexandria R, EGY	CW
16912.5	UKA	Vladivostok R, SE, URS	CW
16914.5	CBV	DGTMMM Valpar. R, CHL	CW
	NWC	*USN Exmouth, WA, AUS*	*FAX // 5262.0 kHz $*
	SPH 84	Gdynia R, POL	CW
	XDA	Mexico City R, MEX	CW
16915.0	FUX	FN Le Port, REU	CW
16916.5	WSC	Tuckerton R, NJ, USA	CW
	XSG 8	Shanghai R, CHN	CW
16917.0	OMC	Bratislava R, TCH	CW
	OMK	Komarno R, TCH	CW
16918.0	LZW 6	Varna R, BUL	CW
	PPJ	Juncao R, B	CW
16918.2	**GYA**	**RN London, G**	**75 Bd: 0730 + 1226 + 1800 test**
16918.6	VIX 6	RAN Canberra, ACT, AUS	CW
16918.8	GKJ 6	Portishead R, G	CW
16920.0	OXZ 81	Lyngby R, DNK	CW
	9GX	Tema R, GHA	CW
16921.0	CLS	Habana F R, CUB	CW
16922.0	**UDK 2**	**Murmansk R, RU, URS**	**1912 R tts wtsca**
	UQA 4	Murmansk R, RU, URS	CW
	'RBSL'	**IN Bombay, IND**	**0312 + 0956 + 1325 ry**
16923.6	OFJ 7	Helsinki R, FNL	CW
	5OZ 23	Port Harcourt R, NIG	CW
16925.0	URL	Sevastopol' R, UK, URS	CW
16925.6	L2C	Buenos Aires R, ARG	CW
	L2S	Mar del Plata R, ARG	CW

16925.6	L2X	Comod. Rivadavia R, ARG	CW
16926.5	CFH	CF Halifax, NS, CAN	CW
16927.0	UJY	Kaliningrad R, RU, URS	CW
16927.5	XFE	Ensenada R, MEX	CW
16928.4	LFX	Rogaland R, NOR	CW
16930.0	OSN 416	BN Oostende, BEL	CW
16930.4	5RS	Toamasina R, MDG	CW
16930.8	ELZ	Cape Palmas R, LBR	CW
16932.0	7TA 10	El Djaza'ir R, ALG	CW
	7TF	Skikda R, ALG	CW
16933.0	OBY 2	Paita R, PRU	CW
16933.2	JOS	Nagasaki R, J	CW
	WCC	Chatham R, MA, USA	CW
16935.0	A7D	Doha R, QAT	CW
16935.5	XFA	Acapulco R, MEX	CW
16936.0	RIT	SN Vaygach, RU, URS	CW
16938.0	HAR	Budapest R, HNG	CW
	VTG 8	IN Bombay, IND	CW
16938.6	*GYA*	*RN London, G*	*FAX // 2813.6 kHz $* CW
16939.8	KLC	Galveston R, TX, USA	CW
16940.5	XSW	Kaohsiung R, TAI	CW
16940.8	LST	YPF Buenos Aires R, ARG	CW
16942.0	RCV	SN Moscow, RU, URS	CW
	5OZ 23	Port Harcourt R, NIG	CW
16942.5	XDA	Mexico City R, MEX	CW
16942.8	EDF 5	Madrid R, E	CW
	YUR 7	Rijeka R, YUG	CW
16944.0	LZL 6	Bourgas R, BUL	CW
16945.0	XVG 7	Hai Phong R, VTN	CW
16947.6	CBV	DGTMMM Valpar. R, CHL	CW
	FFT 8	Saint Lys R, F	CW
	VIP 5	Perth R, WA, AUS	CW
	VRT	Hamilton R, BER	CW
	6VA 7	Dakar R, SEN	CW
	6YI	Kingston R, JMC	CW
	8PO	Bridgetown R, BRB	CW
	8RB	Demerara R, GUY	CW
16947.8	TUA 9	Abidjan R, CTI	CW
16948.0	HCG	Guayaquil R, EQA	CW
	RCV	SN Moscow, RU, URS	CW
16948.5	VCS	CCG Halifax, NS, CAN	CW
16949.0	UPW 2	Liepaja R, LA, URS	CW
16950.0	PWZ	BN Rio de Janeiro, B	CW
	XSQ 4	Guangzhou R, CHN	CW
	9MB 6	MN Georgetown, P.I., MLA	CW
16951.0	YKI	SCOTC Tartus R, SYR	CW
16951.5	6WW	FN Dakar, SEN	CW
16952.0	DUF	Manila R, PHL	CW
16952.4	LFT	Rogaland R, NOR	CW
16953.0	HZG	Dammam R, ARS	CW
16954.4	GKC 6	Portishead R, G	CW
16955.0	**UDH**	**Riga R, LA, URS**	**SITOR-A: 0739 + 1032 + 1230 + 1911 R tts wtsca** CW
	UFL	**Vladivostok R, SE, URS**	**0908 R tts wtsca** CW
16956.0	CBV	DGTMMM Valpar. R, CHL	CW
	PZN 26	Paramaribo R, SUR	CW
16958.0	FUJ	FN Noumea, NCL	CW

16959.0	FUM	FN Papeete, Tahiti, OCE	CW
16959.2	CUL 22	Lisbon R, POR	CW
16960.0	CKN	CF Vancouver, BC, CAN	CW
	HZY	ARAMCO Ras Tan. R, ARS	CW
	PWB	BN Belem, B	CW
	PWF	BN Salvador, B	CW
	PWN	BN Natal, B	CW
	UMV	Murmansk R, RU, URS	CW
16961.0	CLA 40	Habana R, CUB	CW
16961.5	FUF	FN Fort de France, MRT	CW
16962.5	DXF	Davao R, PHL	CW
16963.0	**UJY**	**Kaliningrad R, RU, URS**	**0455-2141 ry or R tts wtsca**
	5AL	ARGOIL Tobruk R, LBY	CW
16965.0	Y5M	Rügen R, D	CW
16966.0	SVI 6	Athens R, GRC	CW
	S9M	Sao Tome R, STP	CW
16966.5	9VG 58	Singapore R, SNG	CW
16968.0	DUS	Manila R, PHL	CW
	PPL	Belem R, B	CW
16968.5	WLO	Mobile R, AL, USA	CW
16968.8	**NMF**	**USCG Boston, MA, USA**	**SITOR-B: 0200 + 1700 wx**
	XSJ	Zhanjiang R, CHN	CW
16970.0	ICB	Genova R, I	CW
	OBQ 5	Iquitos R, PRU	CW
	UQB	Kholmsk R, FE, URS	CW
	URD	**Leningrad R, RU, URS**	**1115 + 1427-1452 R tts wtsca**
16971.0	*JJC*	*Tokyo R, J*	*FAX // 4316.0 kHz*
16972.0	WCC	Chatham R, MA, USA	CW
16973.5	WCC	Chatham R, MA, USA	CW
16974.0	SPE 81	Szczecin R, POL	CW
16974.6	GKD 6	Portishead R, G	CW
16975.0	RKLM	Arkhangelsk R, RU, URS	CW
	VWM	Madras R, IND	CW
16976.0	DUN	PN Manila, PHL	CW
	NMN	USCG Portsm., VA, USA	CW
16977.0	OMP 6	Prague R, TCH	CW
16978.4	3BM 6	Port Louis R, MAU	CW
16980.0	**UNQ**	**Novorossiysk R, RU, URS**	**1336-2007 R tts wtsca** CW
16980.4	DAM	Norddeich R, D	CW
16981.5	SVG 6	Athens R, GRC	CW
16983.0	ELC	Monrovia R, LBR	CW
16983.2	EQZ	IORC Abadan R, IRN	CW
16984.0	PPR	Rio de Janeiro R, B	CW
	UFB	Odessa R, UK, URS	CW
16985.0	CTP	NATO Lisbon, POR	CW
16987.0	VPS 79	Victoria Island R, HKG	CW
16988.8	**GYU**	**RN Gibraltar, GIB**	**75 Bd: 0333 + 0927 + 1248 + 1449 foxes**
16990.0	HLO	Soul R, KOR	CW
	UFH	Petropavl.-Km. R, FE, URS	CW
16991.0	PPR	Rio de Janeiro R, B	CW
16992.0	DUW	Manila R, PHL	CW
16992.8	UAT	Moscow R, RU, URS	CW
16995.0	SVF 6	Athens R, GRC	CW
	9KK 22	Safat R, KWT	CW
16996.0	CLJ	Habana R, CUB	CW
16997.0	UDH	Riga R, LA, URS	CW
16997.6	WLO	Mobile R, AL, USA	CW
16998.5	JDC	Choshi R, J	CW

17000.0	Y5M	Rügen R, D	CW
17002.0	PPL	Belem R, B	CW
17002.4	CBV	DGTMMM Valpar. R, CHL	CW
	UQA 4	Murmansk R, RU, URS	CW
	XSG 29	Shanghai R, CHN	CW
17004.0	HKB	Barranquilla R, CLM	CW
17004.4	ZRH 6	SAN Cape Town, AFS	CW
17005.0	IAR 37	Rome R, I	CW
17006.0	ZRQ 6	SAN Cape Town, AFS	CW
17007.2	PCH 61	Scheveningen R, NLD	CW
17007.5	KLB	Seattle R, WA, USA	CW
17008.8	TAH	Istanbul R, TUR	CW
17009.0	***SAB 84***	***Goeteborg R, S***	***scheduled; QSX 16705.5 kHz***
17010.0	PPO	Olinda R, B	CW
	URD	**Leningrad R, RU, URS**	**1330+1345 R tts wtsca** CW
17011.0	XSX	Keelung R, TAI	CW
17012.0	PPJ	Juncao R, B	CW
17013.0	5BA	Nicosia R, CYP	CW
17014.0	UEK	Feodosiya R, UK, URS	CW
17015.0	OBF 4	Mollendo R, PRU	CW
	UJQ	Kiyev R, UK, URS	CW
17015.5	'D'	Beacon Odessa, UK, URS	CW
17015.7	'S'	Bcn. Arkhangelsk, RU, URS	CW
17016.0	SPH 82	Gdynia R, POL	CW
	'C'	Beacon Moscow, RU, URS	CW
17016.2	'P'	Bcn. Kaliningrad, RU, URS	CW
17016.5	KPH	San Francisco R, CA, USA	CW
	'M'	Beacon Magadan, FE, URS	CW
17016.8	KPH	San Francisco R, CA, USA	CW
17017.0	'F'	Bcn. Vladivostok, SE, URS	CW
17017.1	OST 6	Oostende R, BEL	CW
17018.0	EBA	SN Madrid, E	CW
	ZSC 44	Cape Town R, AFS	CW
	'O'	Beacon Moscow, RU, URS	CW
17020.0	**UDK 2**	**Murmansk R, RU, URS**	**0812-1409 R tts wtsca** CW
17021.6	TAH	Istanbul R, TUR	CW
	WLO	**Mobile R, AL, USA**	**SITOR-B: H+35 tfc list, wx** CW
17023.0	CLJ	Habana R, CUB	CW
	PPR	Rio de Janeiro R, B	CW
17024.0	DZY 7	Manila R, PHL	CW
	OMP 61	Prague R, TCH	CW
	SAB 83	**Goeteborg R, S**	**SITOR-A: 0508-2118 tts; QSX 16700.5 kHz** **SITOR-B: 0500+1700 Swedish nx**
17025.0	UPB	Provideniya R, FE, URS	CW
17026.0	KFS	San Francisco R, CA, USA	CW
17027.0	FFL 8	Saint Lys R, F	CW
17027.5	HPP	Panama R, PNR	CW
17029.0	JMC 6	Tokyo Meteo, J	CW
17030.0	XSG	Shanghai R, CHN	CW
17030.4	GYC 6	RN London, G	CW
17030.6	**GYA**	**RN London, G**	**75 Bd: 0509-2245 test**
17031.0	9VG 28	Singapore R, SNG	CW
17032.0	SXE	HCG Elevsis, GRC	CW
17034.0	VWB	Bombay R, IND	CW
17035.0	TCR	TURBAN Istanbul R, TUR	CW

17035.0	UFH	Petropavl.-Km. R, FE, URS	CW
17035.4	XSW	Kaohsiung R, TAI	CW
17036.0	PWN	BN Natal, B	CW
	UXN	**Arkhangelsk R, RU, URS**	**0732 R tts wtsca**
17037.0	YQI 6	Constanta R, ROU	CW
17038.0	WNU	Slidell R, LA, USA	CW
17038.5	**URL**	**Sevastopol' R, UK, URS**	**0807-1548 R tts wtsca** CW
17039.0	CBV	DGTMMM Valpar. R, CHL	CW
17040.0	*NSY*	*USN Catania, I*	*FAX // 4704.0 kHz $*
17040.8	FFS 8	Saint Lys R, F	CW
	FJA 26	Papeete R, Tahiti, OCE	CW
17043.2	JCU	Choshi R, J	CW
17045.0	ROT	SN Moscow, RU, URS	CW
17045.6	HKC	Buenaventura R, CLM	CW
	LPD 46	General Pacheco R, ARG	CW
	YUR 8	Rijeka R, YUG	CW
	4PB	Colombo R, SLK	CW
	9MG 11	Georgetown R, Pin. I., MLA	CW
17047.0	CLS	Habana F R, CUB	CW
17048.0	DAF	Norddeich R, D	CW
	DZW	Manila R, PHL	CW
17049.0	**UFB**	**Odessa R, UK, URS**	**1213 + 1421 R tts wtsca** CW
17050.0	URB 2	Klaipeda R, LI, URS	CW
17050.4	ASK	Karachi R, PAK	CW
17050.5	4XZ	IN Haifa, ISR	CW
17052.5	JNA	JN Tokyo, J	CW
17053.0	XSX	Keelung R, TAI	CW
17055.0	LZW 6	Varna R, BUL	CW
17056.7	**CTV 7**	**PN Lisbon, POR**	**1200 + 1800 wx** CW
17057.2	SAB 8	Goeteborg R, S	CW
17060.0	PW.	many BN stations, B	CW
	UKK 3	Nakhodka R, SE, URS	CW
	4XO	Haifa R, ISR	CW
17062.0	FUX	FN Le Port, REU	CW
	HZG	Dammam R, ARS	CW
17063.0	UFB	Odessa R, UK, URS	CW
17064.0	SPH 83	Gdynia R, POL	CW
17064.8	EDZ 6	Madrid R, E	CW
17065.0	FUE	FN Brest, F	CW
	UBF 2	Leningrad R, RU, URS	CW
17066.0	UAT	Moscow R, RU, URS	CW
17068.4	OXZ 8	Lyngby R, DNK	CW
17069.5	*JJC*	*Tokyo R, J*	*FAX // 4316.0 kHz*
17069.6	XF. .	many PEMEX R st., MEX	CW
17070.0	SPE 83	Szczecin R, POL	CW
17072.0	GKG 6	Portishead R, G	CW
17074.4	LGX	Rogaland R, NOR	CW
	PNK	Jayapura R, INS	CW
17075.0	ZSD 47	Durban R, AFS	CW
17077.0	UAH	Tallinn R, ES, URS	CW
17079.0	HLF	Soul R, KOR	CW
17079.4	SAG 8	Goeteborg R, S	CW
17080.0	DZD 3	Manila R, PHL	CW
	UAI 3	Nakhodka R, SE, URS	CW
	XSQ	Guangzhou R, CHN	CW
17081.6	JFA	Matsudo F R, J	CW
17082.0	DAB	Norddeich R, D	CW

17083.0	CLY	Habana R, CUB	CW
17084.0	IQX	Trieste R, I	CW
	VHI 6	RAN Darwin, NT, AUS	CW
	ZPK	Asuncion R, PRG	CW
17086.3	**CTU 7**	**PN Lisbon, POR**	**75 Bd: 2042 msgs (5lgs) to CTFF**
17087.0	PPR	Rio de Janeiro R, B	CW
17088.8	KPH	San Francisco R, CA, USA	CW
17090.0	**UAI 3**	**Nakhodka R, SE, URS**	**1040 R tts wtsca** CW
17091.0	DZF	Bacoor R, PHL	CW
	XSQ 4	Guangzhou R, CHN	CW
17092.0	GKH 6	Portishead R, G	CW
17093.0	JOR	Nagasaki R, J	CW
17093.6	AQP 7	PN Karachi, PAK	CW
17094.8	SVA 6	Athens R, GRC	CW
17096.0,	VPS 80	Victoria Island R, HKG	CW
17098.4	GKA 6	Portishead R, G	CW
17100.0	Y5M	Rügen R, D	CW
17101.5	JFA	Matsudo F R, J	CW
17103.2	XSG	Shanghai R, CHN	CW
17104.2	PCH 62	Scheveningen R, NLD	CW
17105.0	IRM	CIRM Rome, I	CW
	RKDF	Pärnu R, ES, URS	CW
17106.5	WSC	Tuckerton R, NJ, USA	CW
17107.0	UTA	Tallinn R, ES, URS	CW
17110.0	UFL	Vladivostok R, SE, URS	CW
17112.0	DZP	Novaliches R, PHL	CW
17112.6	JCS	Choshi R, J	CW
17113.0	GKB 6	Portishead R, G	CW
17114.7		**MFA Cairo, EGY**	**SITOR-A: 1746 msg to Panama**
17115.0	URD	Leningrad R, RU, URS	CW
17115.5	XFL	Mazatlan R, MEX	CW
17117.5	**PBC 317**	**DN Goeree Island, NLD**	**75 Bd: 0421-2238 ry**
17117.6	WNU	Slidell R, LA, USA	CW
17118.0	HLG	Soul R, KOR	CW
17120.0	PPO	Olinda R, B	CW
17120.5	XDA	Mexico City R, MEX	CW
17122.0	**PWZ**	**BN Rio de Janeiro, B**	**1712-0436 ry or wx**
17122.4	PWZ	BN Rio de Janeiro, B	CW
17124.4	SUH 5	Alexandria R, EGY	CW
17126.0	XSZ	Dalian R, CHN	CW
17128.0	DZE	Mandaluyong R, PHL	CW
	HAR	Budapest R, HNG	CW
17128.5	ZLP 6	RNZN Waiouru, NZL	CW
17130.0	HAR	Budapest R, HNG	CW
	HLW	Soul R, KOR	CW
	ROT	**SN Moscow, RU, URS**	**1437 + 1445 R tts wtsca**
17131.0	**BAC 7**	**PTT Beijing, CHN**	**0924 ry**
	UJQ 7	Kiyev R, UK, URS	CW
17132.0	XSV	Tianjin R, CHN	CW
	ZSJ 6	SAN Cape Town, AFS	CW
17134.0	**UNM 2**	**Klaipeda R, LI, URS**	**0756-1430 + 2005 R tts wtsca** CW
	XFN	Progreso R, MEX	CW
17135.0	**UJQ**	**Kiyev R, UK, URS**	**0838 + 0841 R tts wtsca, 1545 + 1600 navigational warnings wtsca** CW
17135.7	GKN 6	Portishead R, G	CW
17136.8	GKM 6	Portishead R, G	CW

17137.0	UHK	Batumi R, GE, URS	CW
17137.7	**GKO 6**	**Portishead R, G**	**SITOR-A: 0847-1930 tts** CW
17138.0	**URB 2**	**Klaipeda R, LI, URS**	**1000 R nx wtsca** CW
17138.4	VIS 62	Sydney R, NSW, AUS	CW
17140.0	UMV	Murmansk R, RU, URS	CW
	XDA	Mexico City R, MEX	CW
17141.0	**UFN**	**Novorossiysk R, RU, URS**	**0730-1803 R ry or tts wtsca** CW
17141.6	JGC	Yokohama R, J	CW
	JNE	Hiroshima R, J	CW
	YVG	La Guayra R, VEN	CW
17143.6	DAN	Norddeich R, D	CW
17144.0	DZD	Antipolo R, PHL	CW
17144.4	*CBV*	*DGTMMM Valparaiso R, CHL*	*FAX // 4228.0 kHz $* CW
17145.0	LZW 6	Varna R, BUL	CW
17146.4	ELC	Monrovia R, LBR	CW
	NRV	USCG Apra Harbour, GUM	CW
	4XO	Haifa R, ISR	CW
17147.0	URL	Sevastopol' R, UK, URS	CW
17147.2	SVJ 6	Athens R, GRC	CW
17147.9	5RS	Toamasina R, MDG	CW
17149.0	TIM	Limon R, CTR	CW
17151.2	GKI 6	Portishead R, G	CW
	NMC	*USCG S. Franc., CA, USA*	*FAX // 4346.0 kHz $*
17152.0	DZZ	Manila R, PHL	CW
	UJY	Kaliningrad R, RU, URS	CW
17153.0	**URL**	**Sevastopol' R, UK, URS**	**0900 R nx wtsca** CW
17155.0	ROT	SN Moscow, RU, URS	CW
	UFB	Odessa R, UK, URS	CW
	UKA	Vladivostok R, SE, URS	CW
17156.0	ASK	Karachi R, PAK	CW
17160.0	DZO	Bulacan R, PHL	CW
	OBC 3	Callao R, PRU	CW
	PWZ	**BN Rio de Janeiro, B**	**2115 wx** CW
17160.8	IAR 27	Rome R, I	CW
	LSA 6	Boca R, ARG	CW
17161.3	VIS 6	Sydney R, NSW, AUS	CW
17162.0	PPO	Olinda R, B	CW
17163.0	**RNO**	**SA/AAMC Moscow, RU, URS**	**0730+0800 R nx wtsca, 0930 msg (TBUS1)** CW
17164.8	ZSC 7	Cape Town R, AFS	CW
17165.6	CLA 41	Habana R, CUB	CW
	LFF	Rogaland R, NOR	CW
	3CA 6	Malabo R, GNE	CW
17166.5	JCT	Choshi R, J	CW
17167.5	GKK 6	Portishead R, G	CW
17168.0	DZN	Navotas R, PHL	CW
17169.0	A9M	Hamala R, BHR	CW
17169.5	WPD	Tampa R, FL, USA	CW
17170.0	PPJ	Juncao R, B	CW
	PPL	Belem R, B	CW
	UDK 2	**Murmansk R, RU, URS**	**1947 R tts wtsca** CW
17170.4	CNP	Casablanca R, MRC	CW

17170.4	PJC	Willemst. R, Curacao, ATN	CW
	ZLB 6	Awarua R, NZL	CW
17171.7		**MFA Cairo, EGY**	**SITOR-A: 0933 ATU-A tfc**
17172.4	WLO	Mobile R, AL, USA	CW
	9MG 11	Georgetown R, Pin. I., MLA	CW
17173.0	ZAD 2	Durres R, ALB	CW
17175.2	A9M	Hamala R, BHR	CW
	CLS	Habana F R, CUB	CW
	EDG 5	Madrid R, E	CW
	UFL	**Vladivostok R, SE, URS**	**0404-0636 R tts wtsca**
	VAI	CCG Vancouver, BC, CAN	CW
	5ZF 4	Mombasa R, KEN	CW
	7OA	Aden R, YEM	CW
	9GA	Takoradi R, GHA	CW
	9LL	Freetown R, SRL	CW
17177.6	DAL	Norddeich R, D	CW
17180.0	HWN	FN Paris, F	CW
	LOL	AN Buenos Aires TS, ARG	CW
17181.0	**UDH**	**Riga R, LA, URS**	**0913-1945 ry or R tts wtsca**
			CW
17182.0	ICB	Genova R, I	CW
	LZL 6	Bourgas R, BUL	CW
17183.0	**Y5M**	**Rügen R, D**	**1330 G nx**
			SITOR-B: 1000 + 1600 G nx, 1645 tfc list
			CW
17184.0	DZK	Bulacan R, PHL	CW
17184.8	EAD 5	Madrid R, E	CW
	KFS	San Francisco R, CA, USA	CW
	PKA	Sabang R, INS	CW
	PKE	Amboina R, INS	CW
	PKP	Dumai R, INS	CW
	9PA	Banana R, ZAI	CW
	9YL	North Post R, TRD	CW
17187.0	OST 62	Oostende R, BEL	CW
17188.0	SVD 6	Athens R, GRC	CW
17189.6	CLS	Habana F R, CUB	CW
	D3E 71	Luanda R, AGL	CW
	XYR 9	Yangon R, MYA	CW
17190.1	UHK	Batumi R, GE, URS	CW
17190.5	**UHK**	**Batumi R, GE, URS**	**1339 ry, R tts wtsca**
			CW
17191.0	LSA	Boca R, ARG	CW
17192.0	VRN 80	Victoria Island R, HKG	CW
	3AC 17	Monte Carlo R, MCO	CW
17194.0	C2N	Makwa R, NRU	CW
17194.4	PPR	Rio de Janeiro R, B	CW
	SVB 6	Athens R, GRC	CW
17196.5	LPD 25	General Pacheco R, ARG	CW
17197.3	TAH	Istanbul R, TUR	CW
17197.5		**coast stations, channel 1**	**QSX 16660.5 kHz**
	DCN	*Norddeich R, D*	*scheduled*
	KFS	*San Francisco R, CA, USA*	*scheduled*
	S9M	*Sao Tome R, STP*	*scheduled*
	UDH	Riga R, LA, URS	SITOR-A: 1750 R tts wtsca
			CW

17197.5	9VG 82	Singapore R, SNG	SITOR-A: 0200-0422+1250-1928 tts SITOR-B: 0630+0830+0930+1530 tfc list CW
17198.0		coast stations, channel 2	QSX 16661.0 kHz
	GKE 6	Portishead R, G	SITOR-A: 0422+0759-2242 tts SITOR-B: 1500+1700 tfc list CW
	WNU	*Slidell R, LA, USA*	*scheduled*
	ZLW	*Wellington R, NZL*	*scheduled*
17198.5		coast stations, channel 3	QSX 16661.5 kHz
	KFS	*San Francisco R, CA, USA*	*scheduled* CW
	OST 66	*Oostende R, BEL*	*scheduled*
	UFM 3	*Nevelsk R, FE, URS*	*scheduled*
	VWM	*Madras R, IND*	*scheduled*
	XSV	*Tianjin R, CHN*	*scheduled*
17199.0		coast stations, channel 4	QSX 16662.0 kHz
	LSD 836	*Buenos Aires R, ARG*	*scheduled*
	5OW 17	Lagos R, NIG	CW
17199.5		coast stations, channel 5	QSX 16662.5 kHz
	LGX 2	Rogaland R, NOR	SITOR-A: 0503-1752 tts SITOR-B: 0700+1700+1900 N nx CW
	WLO	Mobile R, AL, USA	SITOR-A: 0804+1438-2151 tts SITOR-B: H+35 tfc list, 0500 schedule, 1330+1730 wx, 2120 schedule
	5RS	*Toamasina R, MDG*	*scheduled*
17200.0		coast stations, channel 6	QSX 16663.0 kHz
	EHY	Madrid R, E	SITOR-A: 0637-1946 tts CW
	UQK	*Riga R, LA, URS*	*scheduled*
	VIP 35	Perth R, WA, AUS	SITOR-A: 0008-1049 tts CW
	WSC	Tuckerton R, NJ, USA	CW
17200.5		coast stations, channel 7	QSX 16663.5 kHz
	HPP	*Panama R, PNR*	*scheduled*
	JCS	Choshi R, J	SITOR-A: 0850 tts
	WAH	*Saint Thomas R, VIR*	*scheduled*
	XSG	*Shanghai R, CHN*	*scheduled*
17201.0		coast stations, channel 8	QSX 16664.0 kHz
	FFT 81	Saint Lys R, F	SITOR-A: 0728-1733 tts SITOR-B: 0600+0800+0900+1100+1500+1600+2000 tfc list or wx CW
	NMF	USCG Boston, MA, USA	SITOR-B: 1700 wx, schedule
	WPD	*Tampa R, FL, USA*	*scheduled*
17201.5		coast stations, channel 9	QSX 16664.5 kHz
	CBV	DGTMMM Valparaiso R, CHL	SITOR-A: 2122-1145 tts CW
	HZG	*Dammam R, ARS*	*scheduled*
	KLC	*Galveston R, TX, USA*	*scheduled*
	VRT	*Hamilton R, BER*	*scheduled*
	9MG 17	*Georgetown R, Pin. I., MLA*	*scheduled*

17202.0		coast stations, channel 10	QSX 16665.0 kHz
	A9M	Hamala R, BHR	SITOR-A: 0535 tts CW
	DCM	*Norddeich R, D*	*scheduled*
	VIS	Sydney R, NSW, AUS	SITOR-A: 0818 tts CW
17202.5		coast stations, channel 11	QSX 16665.5 kHz
	CBV	*DGTMMM Valpar. R, CHL*	*scheduled*
	WLO	Mobile R, AL, USA	SITOR-A: 0817+1752+1943+2049 tts CW
	XSQ	*Guangzhou R, CHN*	*scheduled*
	3AC 27	*Monte Carlo R, MCO*	*scheduled*
17203.0		coast stations, channel 12	QSX 16666.0 kHz
	NMF	*USCG Boston, MA, USA*	*scheduled*
	NRV	USCG Apra Harbour, GUM	SITOR-B: 0000+0200+0500+1400+1500+1900 wx CW
	OST 67	Oostende R, BEL	SITOR-A: 0727-1853 tts CW
17203.5		coast stations, channel 13	QSX 16666.5 kHz
	KPH	San Francisco R, CA, USA	SITOR-A: 0203+0631+1942 tts CW
	WCC	*Chatham R, MA, USA*	*scheduled*
17204.0		coast stations, channel 14	QSX 16667.0 kHz
	KPH	*San Francisco R, CA, USA*	*scheduled*
	SAB 814	Goeteborg R, S	SITOR-A: 0846-1647 tts
	VIS 69	Sydney R, NSW, AUS	SITOR-A: 24 h tts CW
	WCC	*Chatham R, MA, USA*	*scheduled*
	ZPK	Asuncion R, PRG	CW
17204.5		coast stations, channel 15	QSX 16667.5 kHz
	A7D	*Doha R, QAT*	*scheduled*
	UXN	*Arkhangelsk R, RU, URS*	*scheduled*
	WLO	Mobile R, AL, USA	SITOR-A: 24 h tts CW
17205.0		coast stations, channel 16	QSX 16668.0 kHz
	COB 36	*Flota Cubana F R, CUB*	*scheduled*
	HEC 17	Berne R, SUI	SITOR-A: 0633-2125 tts SITOR-B: 1030+1730 tfc list CW
	UPB	*Provideniya R, FE, URS*	*scheduled*
	YUR	*Rijeka R, YUG*	*scheduled*
17205.5		coast stations, channel 17	QSX 16668.5 kHz
	KLC	*Galveston R, TX, USA*	*scheduled*
	UCO	*Yalta R, UK, URS*	*scheduled*
	9VG 83	Singapore R, SNG	SITOR-A: 2359-1551 tts SITOR-B: 0630 tfc list CW
17206.0		coast stations, channel 18	QSX 16669.0 kHz
	OXZ	Lyngby R, DNK	SITOR-A: 0806-2125 tts SITOR-B: 1130+1330+1530+1930 tfc list CW
	WPD	*Tampa R, FL, USA*	*scheduled*
	9MG 17	Georgetown R, Pinang Island, MLA	SITOR-A: 0240+1035 tts CW
17206.5		coast stations, channel 19	QSX 16669.5 kHz
	UDH	*Riga R, LA, URS*	*scheduled*
	WNU	*Slidell R, LA, USA*	*scheduled*

17206.5	ZSC 64	Cape Town R, AFS	SITOR-A: 0810 + 1754 tts SITOR-B: 0615 + 1015 + 1615 tfc list, 1750 wx CW
17207.0		coast stations, channel 20	QSX 16670.0 kHz
	A7D	*Doha R, QAT*	*scheduled*
	IAR	*Rome R, I*	*scheduled*
	NMC	USCG San Francisco, CA, USA	SITOR-A: 0406 + 2107 tts CW
17207.5		coast stations, channel 21	QSX 16670.5 kHz
	KPH	*San Francisco R, CA, USA*	*scheduled*
	WCC	Chatham R, MA, USA	SITOR-A: 1217-2255 tts SITOR-B: 0500 wx, 1645 navigational warnings, 1700 wx, 2030 tfc list CW
17208.0		coast stations, channel 22	QSX 16671.0 kHz
	KLC	*Galveston R, TX, USA*	*scheduled*
	KPH	*San Francisco R, CA, USA*	*scheduled*
	UBE 2	*Petropavl.-Km. R, FE, URS*	*scheduled*
	3AC 37	*Monte Carlo R, MCO*	*scheduled*
17208.5		coast stations, channel 23	QSX 16671.5 kHz
	SVT 6	Athens R, GRC	SITOR-A: 0611-2126 tts SITOR-B: 1300 + 2100 Greek nx CW
17209.0		coast stations, channel 24	QSX 16672.0 kHz
	PPR	Rio de Janeiro R, B	SITOR-A: 0239 + 0535 + 2126 tts CW
17209.5		coast stations, channel 25	QSX 16672.5 kHz
	WLO	Mobile R, AL, USA	SITOR-A: 0808-2127 tts SITOR-B: 1945 schedule CW
	9VG 96	Singapore R, SNG	SITOR-A: 0016-1706 tts CW
17210.0		coast stations, channel 26	QSX 16673.0 kHz
	CLA	*Habana R, CUB*	*scheduled*
	EHY	*Madrid R, E*	*scheduled*
	Y5M	Rügen R, D	SITOR-A: 0817-1811 tts CW
17210.5		coast stations, channel 27	QSX 16673.5 kHz
	NMN	USCG Portsmouth, VA, USA	SITOR-A: 0937-2127 tts CW
	NMO	*USCG Honolulu, HWA*	*scheduled*
17211.0		coast stations, channel 28	QSX 16674.0 kHz
	IAR	*Rome R, I*	*scheduled* CW
	KFS	*San Francisco R, CA, USA*	*scheduled*
17211.5		coast stations, channel 29	QSX 16674.5 kHz
	GKL 6	Portishead R, G	SITOR-A: 1034 + 1305 tts CW
	UKX	*Nakhodka R, SE, URS*	*scheduled*
	WLO	Mobile R, AL, USA	SITOR-A: 24 h tts CW
17212.0		coast stations, channel 30	QSX 16675.0 kHz
	VPS 82	Victoria Island R, HKG	SITOR-A: 2128-1139 tts CW

17212.5		coast stations, channel 31	QSX 16675.5 kHz
	OXZ	Lyngby R, DNK	SITOR-A: 0536-2053 tts SITOR-B: 0830 Danish nx, 0930 tfc list, 1157+1210 tts, 1630 Danish nx, 1730 tfc list CW
	VCS	*CCG Halifax, NS, CAN*	*scheduled*
17213.0		coast stations, channel 32	QSX 16676.0 kHz
	VAI	*CCG Vancouver, BC, CAN*	*scheduled*
	3AC 47	*Monte Carlo R, MCO*	*scheduled*
17213.5		coast stations, channel 33	QSX 16676.5 kHz
	HPP	Panama R, PNR	SITOR-A: 1225-2128 tts
	UDK 2	*Murmansk R, RU, URS*	*scheduled*
17214.0		coast stations, channel 34	QSX 16677.0 kHz
	BZP 58	XINHUA Beijing, CHN	0600+1100+1200 E nx
	IAR	*Rome R, I*	*scheduled*
	UTA	Tallinn R, ES, URS	0724 R tts wtsca; QSX 16799.0 / 22300.5 kHz CW
	Y5M	*Rügen R, D*	*scheduled*
17214.5		coast stations, channel 35	QSX 16677.5 kHz
17215.0		coast stations, channel 36	QSX 16678.0 kHz
	CLA	*Habana R, CUB*	*scheduled*
	GKP 6	Portishead R, G	SITOR-A: 0140+0800-2129 tts CW
	WPD	*Tampa R, FL, USA*	*scheduled*
17215.5		coast stations, channel 37	QSX 16678.5 kHz
	UFL	*Vladivostok R, SE, URS*	*scheduled*
17216.0		coast stations, channel 38	QSX 16679.0 kHz
	J2A	*Jibuti R, DJI*	*scheduled*
	KPH	*San Francisco R, CA, USA*	*scheduled*
	UDH	Riga R, LA, URS	SITOR-A: 1337 R tts wtsca CW
	WCC	Chatham R, MA, USA	SITOR-A: 1538 tts SITOR-B: 0500 wx, 1645 navigational warnings, 1700 wx CW
	YUS	*Split R, YUG*	*scheduled*
17216.5		coast stations, channel 39	QSX 16679.5 kHz
	UQB	Kholmsk R, FE, URS	2359 R tts wtsca
17217.0		coast stations, channel 40	QSX 16680.0 kHz
	EHY	*Madrid R, E*	*scheduled*
	LSD 836	*Buenos Aires R, ARG*	*scheduled*
	WLO	Mobile R, AL, USA	SITOR-A: 1539+1951 tts CW
17217.5		coast stations, channel 41	QSX 16680.5 kHz
	PCH 65	Scheveningen R, NLD	SITOR-A: 0503-2152 tts CW
17218.0		coast stations, channel 42	QSX 16681.0 kHz
	GKY 6	Portishead R, G	SITOR-A: 0423+0809-2129 tts CW
	UMV	*Murmansk R, RU, URS*	*scheduled*
17218.5		coast stations, channel 43	QSX 16681.5 kHz
	HEC 37	*Berne R, SUI*	*scheduled*
	UAH	Tallinn R, ES, URS	SITOR-A: 0723-1540 R tts wtsca SITOR-B: 1454+1541 R tts wtsca CW
	UFB	*Odessa R, UK, URS*	*scheduled*

17219.0		coast stations, channel 44	QSX 16682.0 kHz
	LSD 836	*Buenos Aires R, ARG*	*scheduled*
17219.5		coast stations, channel 45	QSX 16682.5 kHz
	DCL	Norddeich R, D	SITOR-A: 0810-1807 tts
	IDR 6	IN Rome, I	CW
17220.0		coast stations, channel 46	QSX 16683.0 kHz
	UBN	Zhdanov R, UK, URS	SITOR-A: 1032 R tts wtsca SITOR-B: 0635 R tts wtsca CW
	XSG	Shanghai R, CHN	SITOR-B: 0018 tts, 0700 test
	YUW	*Bar R, YUG*	*scheduled*
17220.5		coast stations, channel 47	QSX 16683.5 kHz
	KFS	*San Francisco R, CA, USA*	*scheduled*
	UXN	Arkhangelsk R, RU, URS	SITOR-A: 0812-1336 R tts wtsca SITOR-B: 0940 ry, R tts wtsca CW
17221.0		coast stations, channel 48	QSX 16684.0 kHz
	HEC 27	Berne R, SUI	SITOR-A: 0537-2130 tts CW
	KLC	*Galveston R, TX, USA*	*scheduled*
	UGH 2	*Juzno R, FE, URS*	*scheduled*
	Y5M	*Rügen R, D*	*scheduled*
17221.5		coast stations, channel 49	QSX 16684.5 kHz
	SVU 6	*Athens R, GRC*	*scheduled*
	UFH	Petropavl.-Km. R, FE, URS	0030 R tts wtsca
17222.0		coast stations, channel 50	QSX 16685.0 kHz
	VPS 83	Victoria Island R, HKG	SITOR-A: 0027-0253 tts SITOR-B: 0000 tfc list CW
	WLO	Mobile R, AL, USA	SITOR-A: 0814+1540+1800+1953 tts CW
17222.5		coast stations, channel 51	QSX 16685.5 kHz
	FFT 83	Saint Lys R, F	SITOR-A: 0743-2055 tts CW
17223.0		coast stations, channel 52	QSX 16686.0 kHz
	LGX 3	Rogaland R, NOR	SITOR-A: 0612-2130 tts SITOR-B: 0700+1700+1900 N nx CW
	WNU	*Slidell R, LA, USA*	*scheduled*
17223.5		coast stations, channel 53	QSX 16686.5 kHz
	8Q2	*Male R, MLD*	*scheduled*
17224.0		coast stations, channel 54	QSX 16687.0 kHz
	UJQ	*Kiyev R, UK, URS*	*scheduled*
	WLO	Mobile R, AL, USA	SITOR-A: 0502-2131 tts CW
17224.5		coast stations, channel 55	QSX 16687.5 kHz
	IAR	*Rome R, I*	*scheduled*
17225.0		coast stations, channel 56	QSX 16688.0 kHz
	CUL	Lisbon R, POR	SITOR-A: 1218 tts
17225.5		coast stations, channel 57	QSX 16688.5 kHz
	SAB 8..	Goeteborg R, S	SITOR-A: 0501-2132 tts
	WNU	Slidell R, LA, USA	SITOR-A: 2135 tts SITOR-B: 1400+1800+1930+2200 tfc list CW
17226.0		coast stations, channel 58	QSX 16689.0 kHz
	UFN	Novorossiysk R, RU, URS	SITOR-A: 0740-1837 R tts wtsca SITOR-B: 1220 R tts wtsca

17226.5		coast stations, channel 59	QSX 16689.5 kHz
	URD	Leningrad R, RU, URS	SITOR-A: 0811+1302+1730 R tts wtsca CW
17227.0		coast stations, channel 60	QSX 16690.0 kHz
	DCF	Norddeich R, D	SITOR-A: 1805+1919 tts
	UFL	Vladivostok R, SE, URS	0031+0456+0923+2133 R tts wtsca CW
17227.5		coast stations, channel 61	QSX 16690.5 kHz
17228.0		coast stations, channel 62	QSX 16691.0 kHz
	LZW	*Varna R, BUL*	*scheduled*
	UAT	Moscow R, RU, URS	SITOR-A: 0721-1309 R tts wtsca, 1315 G nx, 1320-2134 R tts wtsca CW
	ZPK	Asuncion R, PRG	CW
	3AC 57	*Monte Carlo R, MCO*	*scheduled*
17228.5		coast stations, channel 63	QSX 16691.5 kHz
	UNM 2	*Klaipeda R, LI, URS*	*scheduled*
17229.0		coast stations, channel 64	QSX 16692.0 kHz
	SAB 864	Goeteborg R, S	SITOR-A: 0501-2133 tts
	UHK	*Batumi R, GE, URS*	*scheduled*
17229.5		coast stations, channel 65	QSX 16692.5 kHz
	YUR	Rijeka R, YUG	SITOR-A: 1541+1803+1954 tts CW
17230.0		coast stations, channel 66	QSX 16693.0 kHz
	PCH 66	Scheveningen R, NLD	SITOR-A: 0424-2322 tts CW
17230.5		coast stations, channel 67	QSX 16693.5 kHz
	IAR	*Rome R, I*	*scheduled*
	ICB	Genova R, I	CW
	Y5M	*Rügen R, D*	*scheduled*
17231.0		coast stations, channel 68	QSX 16694.0 kHz
	GKQ 6	Portishead R, G	SITOR-A: 0737-2135 tts CW
	URD	*Leningrad R, RU, URS*	*scheduled*
17231.5		coast stations, channel 69	QSX 16694.5 kHz
	UHK	Batumi R, GE, URS	SITOR-A: 0458+0818-1542 R tts wtsca CW
17232.0	WORLDWIDE	COAST STATIONS DSC FREQ.	
17232.5	WORLDWIDE	COAST STATIONS DSC FREQ.	
17232.9		coast stations, ch 1601	SSB QSX 16460.0 kHz
	LFN 2	Rogaland R, NOR	
	LPL 5	General Pacheco R, ARG	
	OXZ	Lyngby R, DNK	
	SAG	Goeteborg R, S	
	S7Q	Victoria R, Mahe, SEY	
	UDN	Novorossiysk R, RU, URS	
	UNM 2	Klaipeda R, LI, URS	
	WOM	Pennsuco R, FL, USA	
17236.0		coast stations, ch 1602	SSB QSX 16463.1 kHz
	GKT 62	Portishead R, G	
	HZG	Dammam R, ARS	
	KMI	Dixon R, CA, USA	
	VIS	Sydney R, NSW, AUS	
	WAH	Saint Thomas R, VIR	
17239.1		coast stations, ch 1603	SSB QSX 16466.2 kHz
	HAR	Budapest R, HNG	

17239.1	IAR	Rome R, I		
	KMI	Dixon R, CA, USA		
	LFN 3	Rogaland R, NOR		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
	S3D	Chittagong R, BGD		
	WAH	Saint Thomas R, VIR		
	XSQ	Guangzhou R, CHN		
	5BA 62	Nicosia R, CYP		
17242.2		coast stations, ch 1604	SSB	QSX 16469.3 kHz
	FFL 83	Saint Lys R, F		
	JBO	Tokyo R, J		
	LFN 4	Rogaland R, NOR		
	VCS	CCG Halifax, NS, CAN		
	VIP	Perth R, WA, AUS		
	XDA	Mexico City R, MEX		
	XF.	many R stations, MEX		
	XFS 4	PEMEX Tecolutla R, MEX		
	XFS 5	PEMEX Tuxpan R, MEX		
	XFU 2	PEMEX Veracruz R, MEX		
17245.3		coast stations, ch 1605	SSB	QSX 16472.4 kHz
	DZ.	many R stations, PHL		
	EQA	Abadan R, IRN		
	FFL 86	Saint Lys R, F		
	FJA	Papeete R, Tahiti, OCE		
	FUB	FN Paris, F		
	LFN 5	Rogaland R, NOR		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
	URD	Leningrad R, RU, URS		
	WOO	Ocean Gate R, NJ, USA		
17248.4		coast stations, ch 1606	SSB	QSX 16475.5 kHz
	COB 34	Flota Atunera F R, CUB		
	COB 36	Flota Cubana F R, CUB		
	GKT 66	Portishead R, G		
	JBO	Tokyo R, J		
	OHG 2	Helsinki R, FNL		
	PPO	Olinda R, B		
	S3E	Khulna R, BGD		
	TAF	Samsun R, TUR		
	TFA	Reykjavik R, ISL		
	UAT	Moscow R, RU, URS		
	ZLW	Wellington R, NZL		
17251.5		coast stations, ch 1607	SSB	QSX 16478.6 kHz
	CFH	CF Halifax, NS, CAN		
	LFN 6	Rogaland R, NOR		
	PJC	Willemst. R, Curacao, ATN		
	SPC 81	Gdynia R, POL		
	SVN 6	Athens R, GRC		
	UIK	Vladivostok R, SE, URS		
	WLO	Mobile R, AL, USA		
	3AC 16	Monte Carlo R, MCO		
17254.6		coast stations, ch 1608	SSB	QSX 16481.7 kHz
	ICB	Genova R, I		
	LFN 7	Rogaland R, NOR		
	OBC 3	Callao R, PRU		
	OMC	Bratislava R, TCH		
	OMK	Komarno R, TCH		
	OMP	Prague R, TCH		
	OXZ	Lyngby R, DNK		

17254.6	PZN	Paramaribo R, SUR		
	SAG	Goeteborg R, S		
	TAH	Istanbul R, TUR		
	VAI	CCG Vancouver, BC, CAN		
	XSG	Shanghai R, CHN		
	ZSC 28	Cape Town R, AFS		
	ZSV 29	Walvis Bay R, NMB		
17257.7		coast stations, ch 1609	SSB	QSX 16484.8 kHz
	HZG	Dammam R, ARS		
	JBO	Tokyo R, J		
	OSU 64	Oostende R, BEL		
	SVN 6	Athens R, GRC		
	WOM	Pennsuco R, FL, USA		
	4XO	Haifa R, ISR		
17260.8		coast stations, ch 1610	SSB	QSX 16487.9 kHz
	CWF	Punta Carretas R, URG		
	DAP	Norddeich R, D		
	LFN 8	Rogaland R, NOR		
	PKX	Jakarta R, INS		
	SUH	Alexandria R, EGY		
	VIS	Sydney R, NSW, AUS		
	WOM	Pennsuco R, FL, USA		
	XSV	Tianjin R, CHN		
17263.9		coast stations, ch 1611	SSB	QSX 16491.0 kHz
	GKU 61	Portishead R, G		
	GYU	RN Gibraltar, GIB		
	HEB 17	Berne R, SUI		
	OHG 2	Helsinki R, FNL		
	PPR	Rio de Janeiro R, B		
	TAM	Mersin R, TUR		
	WOM	Pennsuco R, FL, USA		
	YUR	Rijeka R, YUG		
	5AT	Tripoli R, LBY		
	9MG 38	Georgetown R, Pin. I., MLA		
17267.0		coast stations, ch 1612	SSB	QSX 16494.1 kHz
	ASK	Karachi R, PAK		
	UDK	Murmansk R, RU, URS		
	UKQ 2	Nakhodka R, SE, URS		
17270.1		coast stations, ch 1613	SSB	QSX 16497.2 kHz
	LFN 9	Rogaland R, NOR		
	OSU 63	Oostende R, BEL		
	PPR	Rio de Janeiro R, B		
	UKI	Nakhodka R, SE, URS		
	4XO	Haifa R, ISR		
	9VG 68	Singapore R, SNG		
17273.2		coast stations, ch 1614	SSB	QSX 16500.3 kHz
	ICB	Genova R, I		
	LFN 20	Rogaland R, NOR		
	OHG 2	Helsinki R, FNL		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
	XDA	Mexico City R, MEX		
	XFC	Cozumel R, MEX		
	XFS 4	PEMEX Tecolutla R, MEX		
	XFU 2	PEMEX Veracruz R, MEX		
	XSQ	Guangzhou R, CHN		
	8Q2	Male R, MLD		
17276.3		coast stations, ch 1615	SSB	QSX 16503.4 kHz
	CUL	Lisbon R, POR		
	D3E	Luanda R, AGL		

17276.3	GKU 65	Portishead R, G		
	HEB 27	Berne R, SUI		
	HKB	Barranquilla R, CLM		
	HKC	Buenaventura R, CLM		
	HPP 20	Panama R, PNR		
	J5M	Bissau R, GNB		
	OHG 2	Helsinki R, FNL		
	PKT	Dili R, INS		
	TFA	Reykjavik R, ISL		
	UBE 4	Petropavl.-Km. R, FE, URS		
17279.4		coast stations, ch 1616	SSB	QSX 16506.5 kHz
	DAJ	Norddeich R, D		
	EQI	Abbas R, IRN		
	IAR	Rome R, I		
	KMI	Dixon R, CA, USA		
	WOM	Pennsuco R, FL, USA		
	9GA	Takoradi R, GHA		
17282.5		coast stations, ch 1617	SSB	QSX 16509.6 kHz
	FUB	FN Paris, F		
	HAR	Budapest R, HNG		
	LFN 21	Rogaland R, NOR		
	OXZ	Lyngby R, DNK		
	PPJ	Juncao R, B		
	SAG	Goeteborg R, S		
	S3D	Chittagong R, BGD		
	XFN	Progreso R, MEX		
	4XO	Haifa R, ISR		
17285.6		coast stations, ch 1618	SSB	QSX 16512.7 kHz
	A9M	Hamala R, BHR		
	EQZ	IORC Abadan R, IRN		
	GKU 68	Portishead R, G		
	LFN 22	Rogaland R, NOR		
	LPL	General Pacheco R, ARG		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
	S9M	Sao Tome R, STP		
	TAN	Izmir R, TUR		
	VRT	Hamilton R, BER		
	YUS	Split R, YUG		
17288.7		coast stations, ch 1619	SSB	QSX 16515.8 kHz
	FFL 84	Saint Lys R, F		
	LFN 23	Rogaland R, NOR		
	OBF 4	Mollendo R, PRU		
	UFH	Petropavl.-Km. R, FE, URS		
	Y5M	Rügen R, D		
	3BB	Port Louis Harbour R, MAU		
	9KK 21	Safat R, KWT		
17291.8		coast stations, ch 1620	SSB	QSX 16518.9 kHz
	LFN 24	Rogaland R, NOR		
	TAL	Antalya R, TUR		
	WFN	Jeffersonville R, IN, USA		
	WGK	Saint Louis R, MO, USA		
	WOO	Ocean Gate R, NJ, USA		
	5AB	Benghazi R, LBY		
17294.9		coast stations, ch 1621 (WORLDWIDE CALLING FREQ.)	SSB	QSX 16522.0 kHz
17298.0		coast stations, ch 1622	SSB	QSX 16525.1 kHz
	FFL 85	Saint Lys R, F		
	HEB 47	Berne R, SUI		
	HPP 20	Panama R, PNR		

17298.0	LFN 25	Rogaland R, NOR		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
	S3D	Chittagong R, BGD		
	9GX	Tema R, GHA		
	9KK 22	Safat R, KWT		
17301.1		coast stations, ch 1623	SSB	QSX 16528.2 kHz
	D4A	Mindelo R, S. Vicente, CPV		
	D4D	Praia R, Santiago, CPV		
	GKV 63	Portishead R, G		
	OHG 2	Helsinki R, FNL		
	PCG 63	Scheveningen R, NLD		
	UDE	Odessa R, UK, URS		
	UJQ	Kiyev R, UK, URS		
	XSG	Shanghai R, CHN		
	ZPD	Asuncion R, PRG		
17304.2		coast stations, ch 1624	SSB	QSX 16531.3 kHz
	DAK	Norddeich R, D		
	IAR	Rome R, I		
	KMI	Dixon R, CA, USA		
	S3E	Khulna R, BGD		
	UQK	Riga R, LA, URS		
	5WA	Apia R, SMO		
17307.3		coast stations, ch 1625	SSB	QSX 16534.4 kHz
	EQK	Khoramshahr R, IRN		
	NMO	USCG Honolulu, HWA		
	OSU 61	Oostende R, BEL		
	SPO 81	Szczecin R, POL		
	SVN 6	Athens R, GRC		
	TFA	Reykjavik R, ISL		
	5OW	Lagos R, NIG		
17310.4		coast stations, ch 1626	SSB	QSX 16537.5 kHz
	A7D	Doha R, QAT		
	CKN	CF Vancouver, BC, CAN		
	CLA 72	Habana R, CUB		
	SVN 6	Athens R, GRC		
	UFO	Kholmsk R, FE, URS		
	UGE	Arkhangelsk R, RU, URS		
	VPS	Victoria Island R, HKG		
	WOO	Ocean Gate R, NJ, USA		
17313.5		coast stations, ch 1627	SSB	QSX 16540.6 kHz
	HAR	Budapest R, HNG		
	LFN 26	Rogaland R, NOR		
	OBQ 5	Iquitos R, PRU		
	OSU 62	Oostende R, BEL		
	SVN 6	Athens R, GRC		
	URB 2	Klaipeda R, LI, URS		
	YUR	Rijeka R, YUG		
	YVG	La Guayra R, VEN		
17316.6		coast stations, ch 1628	SSB	QSX 16543.7 kHz
	CLA 75	Habana R, CUB		
	FFL 81	Saint Lys R, F		
	S3D	Chittagong R, BGD		
	UFM 3	Nevelsk R, FE, URS		
	UGH 2	Juzno R, FE, URS		
	4XO	Haifa R, ISR		
17319.7		coast stations, ch 1629	SSB	QSX 16546.8 kHz
	EQM	Bushire R, IRN		
	LFN 27	Rogaland R, NOR		
	SVN 6	Athens R, GRC		

17319.7	Y5M	Rügen R, D		
	6VA	Dakar R, SEN		
	7TA 28	El Djaza'ir R, ALG		
17322.8		coast stations, ch 1630	SSB	QSX 16549.9 kHz
	EHY	Madrid R, E		
	OSU 67	Oostende R, BEL		
	TFA	Reykjavik R, ISL		
	UFA	Batumi R, GE, URS		
	UKB	Riga R, LA, URS		
17325.9		coast stations, ch 1631	SSB	QSX 16553.0 kHz
	CBV	DGTMMM Valpar. R, CHL		
	HEB 37	Berne R, SUI		
	SPC 82	Gdynia R, POL		
	WOO	Ocean Gate R, NJ, USA		
	XSU	Yantai R, CHN		
	7TA 29	El Djaza'ir R, ALG		
	7TF	Skikda R, ALG		
17329.0		coast stations, ch 1632	SSB	QSX 16556.1 kHz
	GKW 62	Portishead R, G		
	HAR	Budapest R, HNG		
	JBO	Tokyo R, J		
	S3D	Chittagong R, BGD		
	WLO	Mobile R, AL, USA		
	5BA 64	Nicosia R, CYP		
17332.1		coast stations, ch 1633	SSB	QSX 16559.2 kHz
	FFL 82	Saint Lys R, F		
	PPL	Belem R, B		
	SPC 83	Gdynia R, POL		
	UBJ	Baku R, AZ, URS		
	XSV	Tianjin R, CHN		
	Y5M	Rügen R, D		
	ZSD 41	Durban R, AFS		
17335.2		coast stations, ch 1634	SSB	QSX 16562.3 kHz
	DAI	Norddeich R, D		
	EHY	Madrid R, E		
	HLS	Soul R, KOR		
	SVN 6	Athens R, GRC		
	TUA	Abidjan R, CTI		
	VFF	CCG Iqaluit, NWT, CAN		
17338.3		coast stations, ch 1635	SSB	QSX 16565.4 kHz
	D3E	Luanda R, AGL		
	D4A	Mindelo R, S. Vicente, CPV		
	J5M	Bissau R, GNB		
	LFN 28	Rogaland R, NOR		
	LZW	Varna R, BUL		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
	S3E	Khulna R, BGD		
	YKM 7	Al Ladhiqiyah R, SYR		
17341.4		coast stations, ch 1636	SSB	QSX 16568.5 kHz
	OHG 2	Helsinki R, FNL		
	PCG 61	Scheveningen R, NLD		
	7TA 30	El Djaza'ir R, ALG		
17344.5		coast stations, ch 1637	SSB	QSX 16571.6 kHz
	EHY	Madrid R, E		
	GKW 67	Portishead R, G		
	HLS	Soul R, KOR		
	VPS	Victoria Island R, HKG		
	5RS	Toamasina R, MDG		

17347.6		coast stations, ch 1638	SSB QSX 16574.7 kHz
	CNP	Casablanca R, MRC	
	KUQ	Pago Pago R, SMA	
	OHG 2	Helsinki R, FNL	
	SPO 82	Szczecin R, POL	
	S9M	Sao Tome R, STP	
	YUW	Bar R, YUG	
17350.7		coast stations, ch 1639	SSB QSX 16577.8 kHz
	DAH	Norddeich R, D	
	EHY	Madrid R, E	
	PCG 62	Scheveningen R, NLD	
	ZAD	Durres R, ALB	
	8Q2	Male R, MLD	
	9PA	Banana R, ZAI	
17353.8		coast stations, ch 1640	SSB QSX 16580.9 kHz
	CBV	DGTMMM Valpar. R, CHL	
	GKW 60	Portishead R, G	
	SVN 6	Athens R, GRC	
	Y5M	Rügen R, D	
	5OW	Lagos R, NIG	
	8PO	Bridgetown R, BRB	
17356.9		coast stations, ch 1641	SSB QSX 16584.0 kHz
	LFN 29	Rogaland R, NOR	
	OXZ	Lyngby R, DNK	
	SAG	Goeteborg R, S	
	UDC	Zhdanov R, UK, URS	
	WLO	Mobile R, AL, USA	
	4PB	Colombo R, SLK	
	7TA 31	El Djaza'ir R, ALG	
	9VG 69	Singapore R, SNG	
17360.0	**RCF 41**	**TASS Moscow, RU, URS**	**0800-1800 A nx**
17363.0	**5YE**	**Nairobi Meteo, KEN**	**100 Bd: 24 h ry or wx**
17367.0	*5YE*	*Nairobi Meteo, KEN*	*FAX // 7464.5 kHz $*
17373.0	*6MK 58*	*YONHAP Soul, KOR*	*FAX // 6915.0 kHz*
			CW
17380.0	FUM	FN Papeete, Tahiti, OCE	CW
17387.0	5BC 84	Nicosia R, CYP	SSB QSX 16512.0/22034.0 kHz
17397.0	**HMY 47**	**PTT Pyongyang, KRE**	**0819-1259 ry**
17400.0	**BBE 52**	**PTT Shanghai, CHN**	**2230+2359 ry**
	5ST 83	**Antananarivo Meteo, MDG**	**0330+0408+0830+1330+1530+1630 wx**
17403.0	**BAL 32**	**PTT Beijing, CHN**	**1258-1458 ry or clg HGO 24**
17404.0	KKN 44	USE Monrovia, LBR	CW

17410.0 - 17550.0 FIXED

17411.0	**GKE 4**	**Portishead R, G**	**(hx 8705.5 kHz)**
			CW (hx 8705.5 kHz)
17413.5	KKN 39	Miami, FL, USA	CW
17413.8	**GHH**	**Jamestown Meteo, SHN**	**1020+1420+1620 ry, wx**
17415.0	HEK 66	Berne Air, SUI	SSB
17417.0	**FFT 41**	**Saint Lys R, F**	**(hx 8708.5 kHz)**
			CW (hx 8708.5 kHz)
	ZCK	**Kowloon Air, HKG**	**0634+1718+2355 msgs**
17420.0	EAE 220	MFA Madrid, E	SSB
17422.3	**EAE 220**	**MFA Madrid, E**	**SITOR-A: 1021 tfc, 1143+1515+1527+2024 msgs**
17426.0	**GPA 6**	**Portishead R, G**	**SITOR-A: 0137+0753-2139 tts**

17427.5	OFA	Helsinki R, FNL	SITOR-A: 1211 + 1627 tts; QSX 16679.0 kHz SITOR-B: 1100 + 1700 Finnish nx
17430.0	9VF 209	JIJI Singapore, SNG	1330 E nx
17432.0	'PHWR'	USAF H. AFB, Hon., HWA	75 Bd: 1755 wx
17440.5		MFA Rome, I	SITOR-A: 1900 msgs SITOR-B: 1800 + 1930 I nx
17443.0	BZG 48	XINHUA Beijing, CHN	0700-1300 F nx
17448.0	SNN 299	MFA Warsaw, POL	75 Bd: 0400 ry
17450.0	MUA	BA London, G	ARQ-M2 96 Bd: A: 1925 encrypted tfc
17452.5		MFA Rome, I	SITOR-A: 0800 + 0806 tfc
17462.7	'RFFUAJ'	FF Villacoublay, F	ARQ-M2 200 Bd: A: 1357 + 1432 + 1503 msg
17464.0		MFA Riyadh, ARS	SAU-FEC 164 Bd: 1253 msg (5fgs)
17468.0	HGO 24	MTI Budapest, HNG	0600 E nx
	MUA	BA London, G	ARQ-M2 96 Bd: B: 1705 encrypted tfc COMB
17470.0	BZS 28	XINHUA Beijing, CHN	0700-1400 E nx
17472.0	'RPFN'	PN Lisbon, POR	75 Bd: 1458 foxes, 1515 clg + msg to 'RPTI', 1530 foxes
17492.0	SOR 249	PAP Warsaw, POL	0845 R nx wca, 1700 E nx
		MFA Rome, I	SITOR-A: 0852 final tfc, s. off
17497.0	BAO 2	PTT Beijing, CHN	0052 ry, clg Hanoi
17498.5		MFA Rome, I	SITOR-A: 0830-1442 tfc or msg
17502.0	'RFLI'	FF Fort de France, MRT	ARQ-E 72 Bd: 1458-2225 msg (F nx) or encrypted msg after "KKKK..." to 'RFLIG' [XXX]
17510.0	*OXT*	*Copenhagen Meteo, DNK*	*FAX // 5850.0 kHz $*
	RFD 53	TASS Moscow, RU, URS	0600-1800 F nx
17513.0	'PHWR'	USAF H. AFB, Hon., HWA	75 Bd: 1401 wx
17517.0	HDN	EN Quito, EQA	75 Bd: 2200 + 2220 ry
	'PHWR'	*USAF H. AFB, Hon., HWA*	*FAX // 16182.0 kHz $*
17518.5	DMK	MFA Bonn, D	ARQ-E 96 Bd: 1154 encrypted msg to Pretoria, 1223 encrypted msg to Addis Ababa, 1532 tfc to Brasilia
17519.0	*HSW 61*	*Bangkok Meteo, THA*	*FAX // 7395.0 kHz $*
17520.0	REM 55	APN Moscow, RU, URS	100 Bd: 0600 + 0700 + 0800 E nx
17521.0	HSW 61	Bangkok Meteo, THA	24 h wx
17522.0	5KM	CN Bogota, CLM	75 Bd: 2335 + 2345 ry
17525.0	'RPTI'	PN Ponta Delgada, AZR	75 Bd: 1519 ry, 1530 clg + tfc to 'RPFN'
17529.0	EBA	SN Madrid, E	1125 + 1827 ry

17550.0 - 17900.0 BROADCASTING <531>

17550.0		APN Moscow, RU, URS	100 Bd: 1100 A nx
17550.9	'RFTJF'	FF Port Bouet, CTI	ARQ-E3 192 Bd: 0525-2025 msgs or operational msg or "controle de voie" to 'RFFA' [AFL]
17551.5	LQC 28	Buenos Aires TS, ARG	CW
17552.0	KWL 90	USE Manila, PHL	CW
17555.0	YWM	VN Maracaibo, VEN	75 Bd: 1934 msgs, 2000 clg CXR
17585.0	*AOK*	*USN Rota, E*	*FAX // 4704.0 kHz $*
17590.0	HZN 49	Jeddah Meteo, ARS	100 Bd: 24 h ry or wx

17592.0	**ZPK**	**PN Asuncion, PRG**	**75 Bd: 1904+1920 clg NBA**
17597.5	**JAQ 57**	**KYODO Tokyo, J**	**0240-0410+0430-0600 E nx**
17600.0	**RIJ 71**	**TASS Moscow, RU, URS**	**1000-1800 P nx**
17610.0	**YZJ 8**	**TANJUG Belgrade, YUG**	**1800 S nx**
17632.5	**SUU**	**Cairo Meteo, EGY**	**1315+1726 wx**
17672.0	*LQZ 67*	*AP Buenos Aires, ARG*	*FAX // 5777.5 kHz*

17900.0 - 17970.0 AERONAUTICAL MOBILE (R)

17901.0		AMS = 12	SSB
17904.0		AMS = CEP CWP NP SP, 4	SSB
17907.0		AMS = CAR EA SAM SEA	SSB
17910.0		AMS = 10	SSB
17913.0		AMS = 6G 13	SSB
17916.0		AMS = W I/III	SSB
17919.0		AMS = W II/IV	SSB
17922.0		AMS = W I/III	SSB
17925.0		AMS = W II/V	SSB
17928.0		AMS = W III/IV	SSB
17931.0		AMS = W I/V	SSB
17934.0		AMS = W II/III	SSB
17937.0		AMS = W IV/V	SSB
17940.0		AMS = W II/III	SSB
17943.0		AMS = 6	SSB
17946.0		AMS = NAT, 14	SSB
17949.0		AMS = 5	SSB
17952.0		AMS = 3	SSB
17955.0		AMS = SAT, 6B	SSB
17958.0		AMS = NCA	SSB
17961.0		AMS = AFI EUR INO MID	SSB
17961.7		**Egyptian E Madrid, E**	**SITOR-A: 1227+1523 ATU-A tfc to Cairo**
17964.0		AMS = 2 11B	SSB
17967.0		AMS = 5 13A 13B 13E 13F	SSB

17970.0 - 18030.0 AERONAUTICAL MOBILE (OR)

17975.0	AFI	USAF MC.AFB, S.,CA, USA	SSB
	'OPBE'	JAT Belgrade, YUG	SSB
		INTERFLUG Berlin, D	SSB
17979.0		**Turkish E Madrid, E**	**FEC-A 144 Bd: 1005 msgs to TAD**
17983.0	7ZA 222	SAUDIA Jeddah, ARS	SSB
17995.0	VXA	CF Edmonton, ALTA, CAN	SSB
	6WI	ASECNA Dakar, SEN	SSB
18001.7		**Egyptian E Nairobi, KEN**	**SITOR-A: 0946+1523+2043 ATU-A msg to Cairo**
18002.0	AFI	USAF MC.AFB, S.,CA, USA	SSB
	AGA	USAF H. AFB, Honol., HWA	SSB
	AIC	USAF Cl. AFB, Luzon, PHL	SSB
18005.0	AIE	USAF Andersen AFB, GUM	SSB
18009.0	NWC	USN Exmouth, WA, AUS	SSB
18012.0	CHR	CF Trenton, ONT, CAN	SSB
	ZKS	RNZAF Rarotonga, CKH	SSB
18016.5	**AOK**	**USN Rota, E**	**VFT: 1513 E nx**
18018.0	GFW	RAF Akrotiri, CYP	SSB
	MQP	RAF Upavon, G	SSB
18019.0	AFE	USAF MD. AFB, T., FL, USA	SSB

18019.0	AFH	USAF A. AFB, Balboa, PNR	SSB
18021.7		Egyptian E Luanda, AGL	SITOR-A: 1520 tfc to Cairo SITOR-B: 1517 ATU-A msgs to Cairo
		MFA Cairo, EGY	SITOR-A: 1528 ATU-A tfc
18023.0	HEE 81	Berne Air, SUI	SSB
18027.0	AFA	USAF A.AFB, C.S.,MD, USA	SSB
	VXA	CF Edmonton, ALTA, CAN	SSB

18030.0 - 18052.0 FIXED

18031.7		MFA Islamabad, PAK	SITOR-A: 0718 + 1504 msg
18034.0	TAD	MFA Ankara, TUR	FEC-A 144 Bd: 0720 msgs (5lgs) to Bonn; 1449 msgs + msg (5lgs with too many "K"s ...) to Bonn
18035.0	ATR 68	OTS Calcutta, IND	0431 ry
	ZRH	SAN Cape Town, AFS	75 Bd: 1210 + 1214 clg LOL, 1445 AMVER msgs
18040.0	GYE	RN London, G	VFT: ARQ-M2 96 Bd: A: 1455 encrypted tfc COMB
	TCY 4	AA Ankara, TUR	0700-1100 E nx, 1100-1300 Turkish nx, 1300-1330 E nx, 1330-1600 Turkish nx
	'RFHI'	FF Noumea, NCL	ARQ-M2 96 Bd: A: 0341 + 1655 "controle de voie" [HII]
18045.0	MKD	RAF Akrotiri, CYP	VFT: 0758-1648 ryi COMB
	'DFZG'	MFA Belgrade, YUG	75 Bd: 0947 ry, 1500 msgs, 1652 ry, 2000 msg (SC nx)
18046.0	FVA 80	Rosny sur Bois Gend., F	SSB
	FVZ 99	Saint Pierre Gend., SPM	SSB
18050.0	RQV 70	TASS Moscow, RU, URS	0600 + 1300 + 1400 + 1600 + 1700 F nx
	YZI	TANJUG Belgrade, YUG	0400 + 0700 + 0900 + 1000 E nx, 1500-1800 F nx
	9VF 255	PIAB Singapore, SNG	FEC-A 96 Bd: 1430 G nx

18052.0 - 18068.0 FIXED + Space Research

18055.0	'DFZG'	MFA Belgrade, YUG	75 Bd: 1500 + 1530 msg (SC nx)
18056.7		MFA Jakarta, INS	1526 ry, 1650 + 1736 msg (Indonesian nx)
18060.0	*AXI 36*	*Darwin Meteo, NT, AUS*	*FAX // 5755.0 kHz $*
18061.0	GYA	RN London, G	75 Bd: 0641-1708 test
18064.0	TAD	MFA Ankara, TUR	FEC-A 144 Bd: 0800 msg (5lgs), 1450 msg
18067.5	NBA	USN Balboa, PNR	75 Bd: 1022 tfc to CCS, 1717 ry, 1750 clg CCS, 1938 msg CW

18068.0 - 18168.0 AMATEUR + AMATEUR-SATELLITE <510 537 538>

18091.7		MFA Islamabad, PAK	SITOR-A: 0806 + 0943 msgs to Paris, 1010 tfc to Rome
		Pakistan E Rome, I	SITOR-A: 1013 msg to Islamabad
18093.0	*LRO 84*	*Buenos Aires Meteo, ARG*	*FAX // 5185.0 kHz $*

18109.5	SUU	Cairo Meteo, EGY	0612-1730 ry or wx
18111.0	FDY	FAF Orleans, F	2028 ry
18113.0	'U'	Bcn. Murmansk, RU, URS	CW (hx 9056.5 kHz)
18119.0		MFA Dakar, SEN	CW
18120.0	MKK	RAF London, G	VFT: 0217 + 0803-2035 ryi COMB
18121.7		Egyptian E Rabat, MRC	SITOR-A: 1702 ATU-A msgs to Cairo
18125.0	RND 70	TASS Moscow, RU, URS	0600-2100 E nx
18134.0	TAD	MFA Ankara, TUR	FEC-A 144 Bd: 1445 msgs to Bonn
18136.7		MFA Cairo, EGY	SITOR-A: 1313 ATU-A tfc
18160.0	RTB 25	TASS Moscow, RU, URS	0800-1900 F nx
18164.5	STK	Khartoum Air, SDN	24 h ry or msgs [SLA]
18166.7		MFA Cairo, EGY	SITOR-A: 0953 + 1729 ATU-A tfc

18168.0 - 18780.0 FIXED + Mobile except aeronautical mobile

18170.0	RIF 33	APN Moscow, RU, URS	100 Bd: 0500-0900 E nx, 0900 R nx wtsca
18174.0		PTT Pyongyang, KRE	SSB
18179.0	'RUEHIA'	USIA Washington, DC, USA	75 Bd: 0810 msgs to various embassies
18184.0	TAD	MFA Ankara, TUR	FEC-A 144 Bd: 0855 msgs (5lgs)
		Turkish E Moscow, RU, URS	FEC-A 144 Bd: 0954 + 1130 msg to TAD
18187.0	SDQ 7	ST Stockholm, S	CW
18190.0	FSB 59	INTERPOL Paris, F	SITOR-A: 1056 + 1532 encrypted tfc
18193.5	CLN 603	PL Habana, CUB	2200 E nx
18195.0	RCI 73	R Moscow feeder, RU, URS	SSB
	RCI 73	TASS Moscow, RU, URS	1000 + 1300 + 1700 F nx
18200.0		APN Moscow, RU, URS	100 Bd: 0900 + 1000 F nx
18210.0	GKX 63	Portishead Air, G	SSB
	LZP 3	PTT Sofia, BUL	0845-0913 + 1400 clg Beijing
18211.5		Indonesian E Damascus, SYR	SI-ARQ 96 Bd: 5 characters: 1315 msg to Jakarta; QSX 19756.5 kHz
18211.7		Egyptian E Abu Dhabi, UAE	SITOR-A: 1257 ATU-A msg to Cairo
18212.0	9XK 79	DW Kigali, RRW	0837-1042 msgs to Cologne
18215.0		VoA Greenville, NC, USA	75 Bd: 1600-2300 E nx
18216.5		Indonesian E Damascus, SYR	SI-ARQ 96 Bd: 5 characters: 1534-1638 msgs to Jakarta; QSX 19756.5 kHz
18220.0	*JMH 5*	*Tokyo Meteo, J*	*FAX // 3622.5 kHz $*
18220.9	CNM 76X9	MAP Rabat, MRC	1000-1130 F nx, 1200-1400 E nx, 1530-1700 F nx
18225.0	*ATQ 38*	*Delhi Meteo, IND*	*FAX // 4993.5 kHz $*
18230.0	GFL 25	Bracknell Meteo, G	0605-1815 ry or wx
18237.0	*BAF 33*	*Beijing Meteo, CHN*	*FAX // 5527.0 kHz $*
18238.0	*ZRO 4*	*Pretoria Meteo, AFS*	*FAX // 4014.0 kHz $*
18240.0		MFA Hanoi, VTN	ARQ-M4 192 Bd: B: 1210 msg (5lgs) C: 1115 msg to Moscow
18242.0	ZRO 4	Pretoria Meteo, AFS	75 Bd: 0445-2031 wx
18251.7		Egyptian E Jakarta, INS	SITOR-A: 1007 ATU-A msgs to Cairo
18255.0	ATB 68	MEA Delhi, IND	0830-1500 E nx

18258.0	**SAM**	**MFA Stockholm, S**	**SWED-ARQ: 0730 tfc**
18261.0	*GFE 24*	*Bracknell Meteo, G*	*FAX // 2618.5 kHz $*
18263.0		**VoA Kavalla, GRC**	**VFT: 75 Bd: 1322 msgs to Greenville**
18263.3	**HBD 20**	**MFA Berne, SUI**	**SITOR-A: 1459 msg (5lgs)**
18264.0	**XVN 48**	**VNA Hanoi, VTN**	**0500+0600+0700 F nx, 0800 E nx**
18264.4		**VoA Kavalla, GRC**	**// 18263.0 kHz**
18266.0	**ZAA 6**	**ATA Tirana, ALB**	**(hx 9133.0 kHz)**
18270.5	**HBD 20**	**MFA Berne, SUI**	**SITOR-A: 1709 msg (F/G nx)**
	HBD 46	**Swiss E Habana, CUB**	**SITOR-A: 1858 msg to HBD 20**
18273.5	**HBD 20**	**MFA Berne, SUI**	**SITOR-A: 1149 tfc to HBD 39**
	HBD 39	**Swiss E Nairobi, KEN**	**SITOR-A: 1148 msg to HBD 20**
18275.0		**VoA Greenvl. fdr., NC, USA**	**ISB**
		UNID station (890)	**ARQ-E 96 Bd: 0817-2032 extremely long (6407 groups) msgs (5lgs)**
18279.5	**HBD 20**	**MFA Berne, SUI**	**SITOR-A: 0658 tfc to HBD 22, 1230 msg (F/G nx), 1453 tfc, 1730 msg (F/G nx)**
	HBD 22	**Swiss E Delhi, IND**	**SITOR-A: 0656 msg (5lgs) to HBD 20, 1456 msg to HBD 20**
18280.5	**'7T1'**	**Czech E Damascus, SYR**	**100 Bd: 1100 msgs (5fgs) to OMZ**
18285.0	**RCV 28**	**R Moscow feeder, RU, URS**	**ISB**
18287.5		**MFA Islamabad, PAK**	**SITOR-A: 0251 tfc**
18289.5	**DMK**	**MFA Bonn, D**	**ARQ-E 96 Bd: 1240 tfc to Kinshasa, 1331 msgs, 1635 ry**
18295.0	**SDU 9**	**ST Stockholm, S**	**ARQ-M2 96 Bd: A: 0723-1750 to Ho Chi Minh Ville** **B: 0725-1603 to Ho Chi Minh Ville [SHC]**
18310.0	**RDT 57**	**TASS Moscow, RU, URS**	**1000-1900 F nx**
18316.4	**'BUNI'**	**Indonesian E Tehran, IRN**	**0810 ry, msg to Jakarta; 1245+1456 msg to Jakarta**
18320.0	**OMZ**	**MFA Prague, TCH**	**75 Bd: 0700+0715 ry, 1425 msgs to KNY 23**
18340.0	**RGB 34**	**TASS Moscow, RU, URS**	**1100+1300+1500 F nx**
18341.7		**Egyptian E Bamako, MLI**	**SITOR-A: 1653 ATU-A msgs to Cairo**
18347.5	**'K'**	**Bcn. Khabarovsk, SE, URS**	**CW**
18351.0	**KWS 78**	**USE Athens, GRC**	**CW**
18354.0	**9MY 63**	**Kuala Lumpur Meteo, MLA**	**0930+1030+1330+1530+2030 ry, wx**
18360.0	**NPN**	**USN Apra Harbour, GUM**	**COMB**
18363.5	**9PL**	**Kinshasa Air, ZAI**	**24 h ry or msgs [ZSA]**
18365.0	**6WW**	**FN Dakar, SEN**	**75 Bd: 0955+1452+1527+1851 clg FAAE**
18385.0	**RRQ 20**	**TASS Moscow, RU, URS**	**0500-1800 E nx**
18388.6	**5AF**	**Tripoli Air, LBY**	**0645-2314 ry or msgs [LSA]**
18398.5		**Indonesian E Tokyo, J**	**CW/SSB**
18400.0	**HGX 38**	**Hungarian E London, G**	**DUP-ARQ: 0800 msgs to HGX 21**
	HGX 42	**Hungarian E Tehran, IRN**	**DUP-ARQ: 0600+1010 msgs to HGX 21**
18401.5		**MFA Jakarta, INS**	**1200 msg (Indonesian nx)**
			SITOR-A: 0430+0930 tfc to Delhi; QSX 19501.5 kHz
18402.0	**RUU 74**	**R Moscow feeder, RU, URS**	**SSB**
18405.0	**RCT 57**	**TASS Moscow, RU, URS**	**0600-1800 E nx**

18410.0	GXQ	BA London, G	VFT: 0821-1904 ryi COMB
	RAD 24	TASS Moscow, RU, URS	1300 F nx
18416.7		MFA Jakarta, INS	1440 ry
18418.0	'7A1'	Czech E Baghdad, IRQ	100 Bd: 1041 msgs (5lgs) + msg to OMZ
18421.0	LQB 54	TELAM Buenos Aires, ARG	1800 + 1900 S nx
18433.0	*LRO 83*	*REUTER Buenos Aires, ARG*	*FAX // 13753.5 kHz*
18440.0	RIF 32	APN Moscow, RU, URS	100 Bd: 0600 F nx, 0700 R nx wtsca, 0800 F nx
18441.2	*JMJ 5*	*Tokyo Meteo, J*	*FAX // 3365.0 kHz $*
18447.7	'RFPTC'	FF N'djamena, TCD	ARQ-M2 200 Bd: A: 1824 "controle de voie" to 'RFFA', 1858 msg to 'RFFA'
18449.0	MKK	RAF London, G	VFT: 1553 ryi COMB
18455.0	RWN 71	APN Moscow, RU, URS	100 Bd: 0500 + 0700 F nx, 1000 + 1100 + 1300 + 1400 P nx
18456.0	MKK	RAF London, G	VFT: 0910 + 1439 + 1742 + 2035 ryi COMB
18460.0	RRG 29	R Moscow feeder, RU, URS	SSB
	RXO 70	*Khabarovsk Met., SE, URS*	*(hx 9230.0 kHz)*
18468.3	PCW 1	MFA Den Haag, NLD	SITOR-A: 1223-0456 tfc
18475.0	TAD	MFA Ankara, TUR	FEC-A 144 Bd: 1045 + 1556 tfc
18480.0	HBO 58	Berne Air, SUI	SSB
18481.2		Polish E Cairo, EGY	75 Bd: 1250 msgs to SNN 299
18490.0	*RUZU*	*SAAM Molodezhnaya, ATA*	*FAX // 10142.0 kHz*
18491.5		Indonesian E Delhi, IND	SITOR-A: 1327 + 1510 msgs or msg (5lgs) to Jakarta, QSX 19117.5 kHz
18496.1	CNM 80X11	MAP Rabat, MRC	0900-1030 A nx, 1200-1400 E nx, 1530-1700 A nx
18498.5	PCW 6	Dutch E Jeddah, ARS	SITOR-A: 0513 msg to PCW 1, 1557 tfc to PCW 1; QSX 19731.5 kHz
18502.0	'RFFA'	MOD Paris, F	ARQ-M2 96 Bd: A: 1348 + 1449 msgs to 'RFLI' [LFB] B: 2032 encrypted msg after "KKKK..." to 'RFLI'
18506.0	GYU	RN Gibraltar, GIB	VFT: 1608 tfc VFT: ARQ-M2 96 Bd: A: 1151 + 1609 encrypted tfc COMB
18515.0	5LA 28	VoA Monrovia feeder, LBR	SSB
18520.0	RRG 28	APN Moscow, RU, URS	100 Bd: 0700 F nx, 0800 A nx, 0900-1200 F nx
18525.0	KKN 50	MFA Washington, DC, USA	CW
		VoA Delano fdr., CA, USA	ISB
18526.0	ORI 37	RTT Brussels, BEL	SSB
18535.0	MKD	RAF Akrotiri, CYP	VFT: 0453-2149 ryi COMB
18540.0	RTV 57	TASS Moscow, RU, URS	0800 + 0900 + 1700 P nx
18542.5	WFK 48	USIA New York, NY, USA	75 Bd: 1600-2000 E nx, 2100 S nx
18543.5	STK	Khartoum Air, SDN	24 h ry or msgs
18550.0	NBA	USN Balboa, PNR	75 Bd: 1537 tfc to CCF, 1927 msgs, 2048 tfc
18552.0		MFA Riyadh, ARS	SAU-FEC 164 Bd: 1153 ATU-A msgs to Bonn

18561.0	9BC 31	IRNA Tehran, IRN	1000-1100 E nx, 1100-1230 A nx
18574.0		Polish E Baghdad, IRQ	75 Bd: 0951 tfc + msg (5fgs) to SNN 299
18592.0	OEY 32	AA Salzburg, AUT	SSB
18600.0	RWN 72	PL Moscow, RU, URS	0700 E nx, 0800 P nx, 0900+1000 F nx, 1100-1500 P nx
18602.5	LOL	AN Buenos Aires, ARG	75 Bd: 2004+2010+2255 clg HDN
18602.9		VoA Greenville, NC, USA	VFT: 75 Bd: 1232 clg Monrovia, 1237 msgs to Botswana, 1320+1342 clg Kavalla, 1350 msg, 1357+1402 clg Rhodes, 1440 clg Ismaning, 1440 tfc to Tanger, 1513 clg Tanger
18604.4		VoA Greenville, NC, USA	// 18602.9 kHz
18610.0		Vietnamese E Moscow, RU, URS	ARQ-M4 192 Bd: C: 0722+0913 (5lgs) to Hanoi
18614.0	CLP 1	MFA Habana, CUB	1459 msg
18615.0	RJS	SN Vladivostok, SE, URS	CW
18630.0	CLP 1	MFA Habana, CUB	1328 msg (S nx) + tfc, 1355 clg CLP 55, 2042 tfc
18635.0	RWN 70	APN Moscow, RU, URS	100 Bd: 0900+1000 R nx wtsca
18646.6	PCW 1	MFA Den Haag, NLD	SITOR-A: 0452-2034 tfc CW
18648.5	SOT 265B	PAP Warsaw, POL	SITOR-B: 1200+1800 Polish nx
18650.0	SOT 265	PAP Warsaw, POL	1700 F nx
18651.5	SOT 265A	PAP Warsaw, POL	1800 Polish nx
18656.0		Cuban E El Djaza'ir, ALG	1432 msg (5fgs) + msg to CLP 1
18664.0	RIW	SN Khiva, UZ, URS	CW
18667.5	JTF 23	MFA Ulan Bator, MNG	0709 ry
18677.0		Nigerian E London, G	FEC-A 96 Bd: 0846 msgs to Lagos
18688.0	SAM	MFA Stockholm, S	SWED-ARQ: 1002 tfc;1030 tfc to SAM 31
	SAM 31	Swed. E El Djaza'ir, ALG	SWED-ARQ: 1030 msg to SAM
18691.0	SAM	MFA Stockholm, S	SWED-ARQ: 0849 tfc to SAM 37
	SAM 37	Swed. E Bucharest, ROU	SWED-ARQ: 0849 msgs to SAM
18704.3	DFS 70	PIAB Bonn, D	FEC-A 96 Bd: 0730-1030 G nx
18710.0	MUA	BA London, G	VFT: ARQ-M2 96 Bd: A: 1533 encrypted tfc
	RIZ 59	*Moscow Meteo, RU, URS*	*FAX // 2815.0 kHz $*
18723.7		MFA Cairo, EGY	SITOR-A: 0735+1029 ATU-A tfc, 1409 msg (5lgs) + ATU-A msg
18725.0		Indian E Yangon, MYA	1000 msgs to Delhi
18730.0	RWE 26	R Moscow feeder, RU, URS	SSB
	'RFVI'	FF Le Port, REU	ARQ-E3 100 Bd: 1850 "controle de voie" [REU]
18756.0	JPA 24	INTERPOL Tokyo, J	SITOR-A: 0749 tfc SITOR-B: 0044 msg
18756.5	7RQ 20	MFA El Djaza'ir, ALG	CW
18757.0		SABS Riyadh feeder, ARS	SSB
18760.0	'P6Z'	MFA Paris, F	100 Bd: 1000 msg (F press review) to various embassies FEC-A 144 Bd: 0830 clg 'U3H', 1335 tfc, 1608 msg
18765.5		Italian E Islamabad, PAK	SITOR-A: 1020 msgs (5lgs) to Rome

18775.0	**MKK**	**RAF London, G**	**VFT: 0955-1937 ryi COMB**

18780.0 - 18900.0 MARITIME MOBILE <532>

18782.5		VoA Greenvl. fdr., NC, USA	ISB
18788.0		**SUNA Khartoum, SDN**	**1000 + 1700 E nx**
18802.0	**TAD**	**MFA Ankara, TUR**	**FEC-A 144 Bd: 0802 tfc, 0853 msg (5lgs), 1007 + 1314 msg CW**
18810.0	**SAM**	**MFA Stockholm, S**	**SITOR-B: 1530 msg (Swedish nx) SWED-ARQ: 1630 msg (Swedish nx)**
18820.0	**CLP 25**	**Cuban E Maputo, MOZ**	**0800 clg CLP 1**
18824.5		Cirebon, INS	SSB
		Jakarta, INS	SSB
18827.0	IDR	IN Rome, I	SSB
18835.0	**RWN 74**	**APN Moscow, RU, URS**	**100 Bd: 0400 + 0500 E nx, 0800 R nx wtsca**
18860.0	**ZAT**	**ATA Tirana, ALB**	**(hx 9430.0 kHz)**
18861.0	**GYA**	**RN London, G**	**75 Bd: 1413 test**
18864.0	**TAD**	**MFA Ankara, TUR**	**FEC-A 144 Bd: 0800 msgs, 1000 + 1028 encrypted msg after "MBMBMB...", 1542 msg (5lgs)**
18870.0	RRG 26	R Moscow feeder, RU, URS	SSB
18872.0	**BZR 68**	**XINHUA Beijing, CHN**	**75 Bd: 0600-1500 E nx**
18876.0	RIT	SN Vaygach, RU, URS	CW
18879.4		*KCNA Pyongyang, KRE*	*(hx 9439.7 kHz)*
18896.0		MFA Rabat, MRC	CW

18900.0 - 19680.0 FIXED

18905.0	**GXQ**	**BA London, G**	**VFT: 0939-1938 ryi COMB**
18916.0	**TAD**	**MFA Ankara, TUR**	**FEC-A 144 Bd: 0858 msgs**
18932.5	**XVR 94**	**PTT Ho Chi Minh Ville, VTN**	**ARQ-M2 96 Bd: A: 0920 foxes B: 1000 + 1720 to Stockholm [HOS]**
18940.0	*BDF*	*Shanghai Meteo, CHN*	*FAX // 7420.0 kHz*
18941.6	**TAD**	**MFA Ankara, TUR**	**FEC-A 144 Bd: 1740 msg**
18945.0		R Moscow feeder, RU, URS	SSB
18947.0	**SAM**	**MFA Stockholm, S**	**SWED-ARQ: 0758 + 1220 + 1400 tfc, 1433 msgs to SAM 25**
	SAM 25	**Swedish E Lisbon, POR**	**SWED-ARQ: 1435 msgs to SAM**
18965.0	**'RFHJ'**	**FF Papeete, Tahiti, OCE**	**ARQ-E3 192 Bd: 0000 "controle de voie"**
18975.0	ZRP	Sanae Base, ATA	SSB
18982.0	7CB	IN Belawan, INS	CW
18988.0	**JAX 78**	**DIS Tokyo, J**	**0200 + 0600 + 0700 E nx**
18990.0	HDN	EN Quito, EQA	SSB
	LOL	AN Buenos Aires, ARG	SSB
	NBA	USN Balboa, PNR	SSB
	OBC	PN Callao, PRU	SSB
	YWM	VN Maracaibo, VEN	SSB
	5KM	CN Bogota, CLM	SSB
18993.5	**SOT 299B**	**PAP Warsaw, POL**	**SITOR-B: 1200 + 1400 Polish nx**

18993.5	**SPW**	**Warsaw R, POL**	**SITOR-A: 0440+0857-1940 tts; QSX 16701.5 kHz**
			CW
18995.0	**SPW**	**Warsaw R, POL**	**SSB**
19000.0	**RHK 20**	**R Moscow feeder, RU, URS**	**SSB**
19006.7		**MFA Cairo, EGY**	**SITOR-A: 0805+1108+1120+1217 ATU-A msg**
19012.0	**OST**	**Oostende R, BEL**	**SITOR-A: 0623-1907 tts; QSX 16784.5 kHz**
			CW
19013.5	**OST 68**	**Oostende R, BEL**	**SITOR-B: 0620+0920+1120+1220+1320+1420+1820 tfc list**
19021.7		**Pakistan E Tripoli, LBY**	**SITOR-A: 1212 tfc to Islamabad**
19026.2	**AEM 1USA**	**USA MARS Heidelberg, D**	**45 Bd: 1320+2030 ry**
19026.7	**AEM 1USA**	**USA MARS Heidelberg, D**	**Packet Radio 300 Bd: 1215 tfc to AAA3 USA**
19028.0	**PWZ**	**BN Rio de Janeiro, B**	**75 Bd: 1400+1830 ry**
19035.0	**RFD 50**	**APN Moscow, RU, URS**	**100 Bd: 0700 A nx, 0800+0900 F nx**
19040.0	**LZC 3**	**Sofia, BUL**	**75 Bd: 1923 ry**
			CW
19044.0	**RCV**	**SN Moscow, RU, URS**	**CW**
19048.7	**'RFFA'**	**MOD Paris, F**	**ARQ-E3 192 Bd: 1505 msg to 'RFTJ' [ISG]**
19051.7		**MFA Cairo, EGY**	**SITOR-A: 1337 msg (5lgs) + ATU-A final tfc, s. off**
19052.0	**TAD**	**MFA Ankara, TUR**	**FEC-A 144 Bd: 1500 ry**
19058.0	**OBC**	**PN Callao, PRU**	**75 Bd: 1414 foxes**
19064.0	**TAD**	**MFA Ankara, TUR**	**FEC-A 144 Bd: 1530 msg (5lgs)**
19070.0	**RRG 25**	**APN Moscow, RU, URS**	**100 Bd: 0500+0600+0700 E nx**
	RRG 25	**PTT Moscow, RU, URS**	**SSB**
19098.0	**RCV**	**SN Moscow, RU, URS**	**CW**
19100.0	**'RFLI'**	**FF Fort de France, MRT**	**ARQ-M2 96 Bd: A: 0706-2356 msgs + encrypted msgs after "KKKK..." + "controle de voie" to 'RFFA' [ALI, BFL, FDI]** **B: 1428-2322 msgs or encrypted msgs after "KKKK..." or "controle de voie" to 'RFFA' [ALI, BSL]**
19101.5		**Indonesian E Delhi, IND**	**0917 msgs to Jakarta, 1017 ry, 1218+1343 msgs to Jakarta**
19105.0	**RPT 34**	**TASS Moscow, RU, URS**	**0400-1400 F nx**
19109.0	**OZU 25**	**MFA Copenhagen, DNK**	**SITOR-A: 1133 tfc**
19111.5		**MFA Jakarta, INS**	**0710-1513 msg or msg (5lgs) or msg (E nx)**
19115.0	**'DOR'**	**MFA Sofia, BUL**	**75 Bd: 0850 msg**
19117.5		**MFA Jakarta, INS**	**SITOR-A: 0754+1141+1301+1351 msgs to Delhi; 1413+1435 msg (E nx), 1548 tfc; QSX 18491.5 kHz**
19127.0	**RMC 21**	**APN Moscow, RU, URS**	**100 Bd: 1200 P nx**
	RMC 21	**TASS Moscow, RU, URS**	**0800+1200-1900 P nx**
19130.0	**FSB 61**	**INTERPOL Paris, F**	**SITOR-A: 0919 encrypted tfc**
			CW
	JPA 59	**INTERPOL Tokyo, J**	**SITOR-A: 0337+0650+0727+1018 msgs**
19145.7	**'RFTJ'**	**FF Dakar, SEN**	**ARQ-E3 192 Bd: 1245 "controle de voie" [TJA]**
19150.0		**MFA Pyongyang, KRE**	**1422 msgs (5fgs)**

19154.0	EHY 78	PTT Madrid, E	SSB
19160.3	EHY 78	PTT Madrid, E	SSB
19164.3	FPT 7	DTRE Paris, F	SSB
19169.0	FPT 7	DTRE Paris, F	VFT: ARQ-M2 96 Bd: A: 0825+1138 Air Afrique data channel to N'djamena
19170.5	FPT 7	DTRE Paris, F	SSB
19171.1	CNM 85X11	MAP Rabat, MRC	0900-1030 A nx, 1200-1400 E nx, 1530-1700 A nx
19173.5	FPT 7	DTRE Paris, F	SSB
19176.7	FPT 7	DTRE Paris, F	SSB
19200.0	9BC 32	IRNA Tehran, IRN	1000-1300 E nx
19204.8	'RFLI'	FF Fort de France, MRT	ARQ-E3 192 Bd: 0810 "controle de voie" [LIJ]
19210.0	RCC 79	TASS Moscow, RU, URS	0600 F nx, 0800 A nx, 0900 F nx, 1000-1400 A nx, 1500+1800 F nx, 2000 A nx F7B: 1400+1600+1700 A/F nx
19216.7	'RFLI'	FF Fort de France, MRT	ARQ-E3 96 Bd: 0825 "controle de voie" [LIH]
19216.2	SAM	MFA Stockholm, S	SSB
19217.2	SAM	MFA Stockholm, S	SWED-ARQ: 0754+1023 msg to SAM 59
	SAM 51	Swedish E Tehran, IRN	SWED-ARQ: 0640 msgs to SAM, 0650 msg (5lgs) after "KCKC SSSLLL SSSLLL SSSLLL"
19222.0	'DFZG'	MFA Belgrade, YUG	75 Bd: 0620 ry, 0700+1500 msg (SC nx)
19225.0	FDY	FAF Orleans, F	1155+1500+1603+2033 ry
19228.0	Z2F 1	Yugoslav E Harare, ZWE	FEC-A 144 Bd: 0957 msg to 'DFZG'
19235.0	RWW 70	TASS Moscow, RU, URS	0800+0900 F nx, 1000+1200 A nx, 1500 F nx F7B: 1400 A/F nx
19250.0	MKK	RAF London, G	VFT: 1305+1825 ryi COMB
19260.0	CLP 1	MFA Habana, CUB	1202 msgs
19261.5		VoA Greenvl. fdr., NC, USA	ISB
19266.7		Egyptian E Ankara, TUR	SITOR-A: 1110 ATU-A msg to Cairo
19273.1		R Moscow feeder, RU, URS	SSB
19275.0	*RXO 74*	*Khabarovsk Met., SE, URS*	*FAX // 4516.7 kHz $*
19305.0		UNID station (1090)	ARQ-E 192 Bd: 0959-1914 encrypted tfc
19306.7	PCW 8	Dutch E Tripoli, LBY	SITOR-A: 1020 msg (5lgs) + msg + "persbureau" (Dutch press review) to PCW 1
19311.0	RDK 26	R Moscow feeder, RU, URS	SSB
19324.0	AFS	USAF AWS Om., NE, USA	75 Bd: 1402-0237 wx
19328.0	*AFS*	*USAF AWS Om., NE, USA*	*FAX // 3232.0 kHz*
19336.0	UMS	Moscow, RU, URS	0830 ry
19357.0		MFA Lagos, NIG	FEC-A 96 Bd: 1139 msgs to Gaborone, 1410 tfc to Addis Ababa, 1600 msgs + tfc to Gaborone, 1757 final tfc, s. off
19383.0		PANA Dakar, SEN	0900+1000+1100 E nx, 1500-1900 E/F nx
19384.0	BZG 49	XINHUA Beijing, CHN	0600+0700 F nx
19387.7	'RFQP'	FF Jibuti, DJI	ARQ-M2 200 Bd: A: 1903 "controle de voie"

19398.8	HGX 45	Hungar. E Islamabad, PAK	0640 clg HGX 21
19400.0	VVD 69	Delhi Meteo, IND	0040-1408 wx
19405.0	AYA	INTERPOL Buenos Aires, ARG	SITOR-A: 1628 + 1705 + 1908 msgs, 2135 tfc
	FSB 63	INTERPOL Paris, F	SITOR-A: 0012 + 0647-1911 encrypted tfc CW
19417.0	'RFFA'	MOD Paris, F	ARQ-E3 48 Bd: 0410 + 1425 + 1900 "controle de voie" [IGU]
19419.0	4XZ	IN Haifa, ISR	CW
19421.7		MFA Cairo, EGY	SITOR-A: 0726 ATU-A msg
19425.5	SAM	MFA Stockholm, S	SWED-ARQ: 0516 tfc to SAM 98, 0738 msgs to SAM 54
	SAM 98	Swedish E Manila, PHL	SWED-ARQ: 0901 tfc to SAM
19430.0	MKD	RAF Akrotiri, CYP	VFT: 1020-2148 ryi COMB
19438.5	LOR	AN Puerto Belgrano, ARG	75 Bd: 1104 msgs (5lgs), 1802 ry, 1820 + 2156 + 2252 msgs (5lgs) [PNR]
19455.0	CLP 1	MFA Habana, CUB	2043 msgs (5lgs) CW
19460.7	KNY 23	Czech E Washington, DC, USA	75 Bd: 1348-1913 msgs or msg (5lgs) to OMZ
19463.0		SUNA Khartoum, SDN	0900 + 1600 F nx
19472.0	UMS	Moscow, RU, URS	1230 ry
19473.0	AQP 9	PN Karachi, PAK	CW
19475.0	IRR 24	ITALCABLE Rome, I	SSB
19480.0		VoA Greenvl. fdr., NC, USA	ISB
19481.2	9RL 388	PTT Kinshasa, ZAI	ARQ-M2-242 96 Bd: A: 1505 to Brussels
19482.5	VER	CF Ottawa, ONT, CAN	ARQ-M2 96 Bd: A: 1316 encrypted tfc
19495.5	9RL 394	PTT Kinshasa, ZAI	SSB
19497.3	9RL 394	PTT Kinshasa, ZAI	ARQ-M2 96 Bd: A: 1558 tfc
19501.5		Indonesian E Delhi, IND	SITOR-A: 0319-1133 tfc to Jakarta; QSX 18401.5 kHz
19505.0	RCD 36	PL Moscow, RU, URS	0700 E nx, 0800 + 0900 + 1000 P nx, 1100 F nx, 1200 + 1300 + 1400 P nx
19510.0	GKX ..	Portishead Air, G	SSB
19529.0	JMG 5	Tokyo Meteo, J	0354-2132 wx
19535.0	9VC 91	PIAB Singapore, SNG	FEC-A 96 Bd: 1400-1800 G nx
19541.7		MFA Cairo, EGY	SITOR-A: 1244 ATU-A msg
19542.8	ORI 59	RTT Brussels, BEL	SSB
19546.0	ORI 59	RTT Brussels, BEL	SSB
19549.0	ORI 59	RTT Brussels, BEL	SSB
19550.0		MFA Riyadh, ARS	SAU-FEC 164 Bd: 1310 ATU-A tfc
19575.0	NPN	USN Apra Harbour, GUM	COMB
19576.0	ORI 59	RTT Brussels, BEL	ARQ-M2 96 Bd: A: 1242 + 1558 + 1605 to 9RE 395 B: 0625-1805 to 9RE 395 [LUMR]
19577.5	ORI 59	RTT Brussels, BEL	SSB
19615.0	NBA	USN Balboa, PNR	SSB
19616.5	NBA	USN Balboa, PNR	75 Bd: 1800 foxes
19622.0	SAM	MFA Stockholm, S	SITOR-A: 1241 tfc SWED-ARQ: 1000 tfc to SAM 34
	SAM 34	Swedish E Harare, ZWE	SWED-ARQ: 1001 msgs to SAM

19635.0	'P6Z'	MFA Paris, F	FEC-A 144 Bd: 0700 msg (F nx), 0718+1502 msg (5lgs), 1550 msg (F nx), 1625 msgs to 'Z4D'
19644.0		MFA Lagos, NIG	FEC-A 96 Bd: 0720+1528 tfc, 1730 msgs
19645.0	'RFTJ'	FF Dakar, SEN	ARQ-E3 48 Bd: 1311+1340+1641 "controle de voie" to 'RFFA' [SGI]
19654.0	'0A'	UNID station (1090)	SITOR-A: 1443 s. on with E msg "fm sunray yvb to rnr" to '56'
	'56'	UNID station (1090)	SITOR-A: 1443 tfc to '0A'
19655.0	'J5W'	French E Rabat, MRC	100 Bd: 1045+1530 s. on with clg 'P6Z' CW
19658.0	NDT	USN Yokosuka, J	COMB
19660.0	AQP	PN Karachi, PAK	CW

19680.0 - 19800.0 MARITIME MOBILE <520B 532>

19680.0	*3MA 23*	*CNA Taipei, TAI*	*FAX // 5117.0 kHz* CW
19680.5	WORLDWIDE	NBDPT MSI FREQUENCY	
19682.8	ARA	Karachi Meteo, PAK	0735 wx
19693.0	FTT 69	DTRE Paris, F	SSB
19695.0	NGR	USN Kato Soli, GRC	VFT: 0934 E nx
19696.3	FTT 69	DTRE Paris, F	SSB
19725.0		APN Moscow, RU, URS	100 Bd: 0700+0900 F nx, 1000 P nx
		R Moscow feeder, RU, URS	SSB
19731.5	PCW 1	MFA Den Haag, NLD	SITOR-A: 0255 tfc, 0756 tfc to PCW 6, 1703+1805 tfc; QSX 18498.5 kHz CW
19747.5	6VU 79	Dakar Meteo, SEN	0408-2218 ry or wx
19751.5	*6VU 79*	*Dakar Meteo, SEN*	*FAX // 13669.5 kHz $*
19756.5		MFA Jakarta, INS	SI-ARQ 96 Bd: 5 characters: 1315+1636 tfc to Damascus; QSX 18211.5 or 18216.5 kHz
19782.0	ARL 16	Karachi, PAK	CW
19792.5		VoA La Union, Poro Island, PHL	75 Bd: 0000-1000 E nx, 1000+1100 F nx

19800.0 - 19990.0 FIXED

19801.5	HGX 21	MFA Budapest, HNG	DUP-ARQ: 1803 msgs
19810.4	OEC	MFA Vienna, AUT	SI-ARQ 96 Bd: 5 characters: 1403 tfc
	OEC 36	Austrian E Beijing, CHN	SI-ARQ 96 Bd: 5 characters: 0755 msgs to OEC
19814.8		VoA Tanger, MRC	(sp 19914.8 kHz)
19821.5	4UZ	UNO Geneva, SUI	SITOR-A: 0738-1553+1930+2114 ry or clg or msgs to Khartoum
19821.7		Egyptian E Khartoum, SDN	SITOR-A: 0932+1256+1526 clg Cairo, 1635+1738 ATU-A tfc to Cairo
19822.5	5AF	Tripoli Air, LBY	1335-1543+2300 ry or msgs [LSA]

19823.9	4UZ	UNO Geneva, SUI	75 Bd: 0825 msg (E nx)
19830.0	RWW 76	APN Moscow, RU, URS	100 Bd: 0700+0800 E nx
	RWW 76	R Moscow feeder, RU, URS	SSB
	RWW 76	TASS Moscow, RU, URS	1200+1300 Armenian nx waa
19836.5		MFA Lagos, NIG	FEC-A 96 Bd: 1258 encrypted tfc, s. off
19845.0	RWZ 74	TASS Moscow, RU, URS	0600+0700+0900+1300+1900 E nx
19858.0	*NPN*	*USN Apra Harbour, GUM*	*FAX // 5258.0 kHz $*
19860.0	GYA	RN London, G	75 Bd: 0428-2024 test
19862.0	*NPN*	*USN Apra Harbour, GUM*	*FAX // 5262.0 kHz $*
19865.5	YZJ 4	TANJUG Belgrade, YUG	1400+1500+1600 S nx
19892.5		VoA La Union, P. I., PHL	(sp 19792.5 kHz)
19895.0	MKD	RAF Akrotiri, CYP	VFT: 1436 ryi COMB
19901.2	COP	Yright Klingenfuss, D	740 00 Tübingen Germoney
19912.5		VoA Delano feeder, CA, USA	SSB
19914.8		VoA Tanger, MRC	75 Bd: 0800-1000 E nx, 1000-1200 F nx, 1200+1300 E nx
19935.0	CLP 1	MFA Habana, CUB	0740 msgs
19951.7		Egyptian E Washington, DC, USA	SITOR-A: 1740 msg (5lgs) + ATU-A msg to Cairo
19961.0	CLP 1	MFA Habana, CUB	2020 ry
19962.0		Turkish E Tokyo, J	FEC-A 144 Bd: 0824+0909 msg to TAD
19980.0	9BC 33	IRNA Tehran, IRN	1000-1100 E nx, 1100-1400 A nx, 1500+1600+1700 E nx

19990.0 - 19995.0 STANDARD FREQUENCY AND TIME SIGNAL + Space Research <501>

19991.0	ELE 19	VoA Monrovia, LBR	75 Bd: 0927+1100 foxes
19993.0	WORLDWIDE	MSV SAR OPERATIONS FREQ.	SSB

19995.0 - 20010.0 STANDARD FREQUENCY AND TIME SIGNAL <501>

20000.0	WWV	Fort Collins TS, CO, USA	COMB
20008.0	HGX 59	Hung. E Dar es Slm., TZA	0700+1200 clg HGX 21

20010.0 - 21000.0 FIXED + Mobile

20010.0	SAM	MFA Stockholm, S	SSB
	SAM 70	Swed. E Addis Ababa, ETH	SSB
20011.7		MFA Islamabad, PAK	SITOR-A: 0500 tfc
20012.0	SAM	MFA Stockholm, S	SWED-ARQ: 0618+0704+0730 tfc, 0852 tfc to SAM 70, 1005 msg to SAM 52
	SAM 52	Swedish E Tel Aviv, ISR	SWED-ARQ: 1007 tfc to SAM, 1013 msg to SAM
	SAM 70	Swedish E Addis Ababa, ETH	75 Bd: 0742+0851 msg to SAM SWED-ARQ: 0700 msg (press review) to SAM
20014.8		VoA Tanger, MRC	(sp 19914.8 kHz)
20015.0	*NAM*	*USN Norfolk, VA, USA*	*FAX // 3357.0 kHz $*
20019.4	DFU 20L1	DW Cologne, D	0915+0927 ry, 0937 tfc to 4QQ 217

20022.4	DFU 20H3	PIAB Bonn, D	FEC-A 96 Bd: 1500 + 1600 + 1700 G nx
20025.0	NKW	USN Diego Garcia, DGA	COMB
20035.0	CLP 1	MFA Habana, CUB	1542 tfc, 1700 msgs to CLP 45
	HEK 7	Berne Air, SUI	SSB
20037.0		MFA Lagos, NIG	FEC-A 96 Bd: 1008 msg (5lgs), 1352 msg, 1630 msg (E nx), 1804 tfc
20045.0	MUA	BA London, G	ARQ-M2 96 Bd: A: 1622 encrypted tfc
20053.5		Italian E Nairobi, KEN	SITOR-A: 1234 msg (5lgs) to Rome
20062.5		German E K. Lumpur, MLA	ARQ-E 96 Bd: 0749 msgs to DMK
20064.0	RIT	SN Vaygach, RU, URS	CW
20065.0	GKX ..	Portishead Air, G	SSB
20066.8		German E Delhi, IND	ARQ-E 96 Bd: 0513 tfc to Bonn
20085.0	ISX 20	ANSA Rome, I	0800 E nx, 0900 F nx, 1000 E nx, 1100 F nx, 1200 E nx, 1400 F nx, 1500 E nx, 1600 F nx
20092.6	LBL 1	Norwegian UNIFIL Beirut, LBN	SITOR-A: 0622 + 0900 msg to Oslo
20110.0	CLP 1	MFA Habana, CUB	1303 msgs to Cotonou, 1320 msg (5lgs) to Accra, 2122 msgs to Luanda, 2300 msg
20125.0		VoA Greenvl. fdr., NC, USA	ISB
20132.0	'DFZG'	MFA Belgrade, YUG	75 Bd: 0530 ry, msg (SC press review), 0810 ry, 1820 msgs
20145.0	7RQ 20	MFA El Djaza'ir, ALG	CW
	7RQ 50	Algerian E Jakarta, INS	CW
	7RQ 70	Algerian E Islamabad, PAK	CW
20148.0	EBA	SN Madrid, E	75 Bd: 1030 clg LOL
20157.7	5KM	CN Bogota, CLM	75 Bd: 2011 ry
20167.5		MFA Rome, I	SITOR-A: 0919 msg to various embassies
20179.7	'RFFA'	MOD Paris, F	ARQ-E3 100 Bd: 0937 encrypted tfc after "KKKK...", 1157 "controle de voie" to 'RFVI', 1533 msg [IRE]
20188.5		many USAF MARS stations	SSB
20190.3	CLP 1	MFA Habana, CUB	0437 msgs to Hanoi
20192.0	AFE 70	USAF Cape Can., FL, USA	SSB
	AFE 83	USAF Wideawake, ASC	SSB
	AFE 86	USAF Cedar Grove, ATG	SSB
20195.0	CLP 1	MFA Habana, CUB	0728 + 1005 msg
20204.0	YZJ	TANJUG Belgrade, YUG	1200 F nx, 1300 + 1400 E nx
20210.0	RKA 79	TASS Moscow, RU, URS	(hx 10105.0 kHz)
20225.0	NAM	USN Norfolk, VA, USA	CW
20240.0	RGI 24	TASS Moscow, RU, URS	(hx 10120.0 kHz)
20245.0	CLP ..	Cuban E Accra, GHA	CW
20260.0	*RBW 48*	*Murmansk Meteo, RU, URS*	*(hx 10130.0 kHz)*
20267.6	'RFFXI'	FF Bangui, CAF	ARQ-E 72 Bd: 1300-1733 to 'RFFX' [XZI]
20280.0	RTU 48	R Moscow feeder, RU, URS	SSB
20286.5	SOV 228	PAP Warsaw, POL	SITOR-B: 1200 + 1400 + 1800 Polish nx
	SPW	Warsaw R, POL	SITOR-A: 0710 + 0732 + 1715 tts; QSX 22226.0 kHz CW
20290.0	MKD	RAF Akrotiri, CYP	VFT: 0755-1803 ryi COMB

20290.0	RCC 72	PTT Moscow, RU, URS	SSB
20302.0	*NKW*	*USN Diego Garcia, DGA*	*FAX // 5262.0 kHz $*
20320.0	SNN 299	MFA Warsaw, POL	75 Bd: 0712 msg
20325.0	'DOR'	MFA Sofia, BUL	75 Bd: 0851+0900 ry, 0940+1000 msg
20327.5	6VK 221	PANA Dakar, SEN	1500 E/F nx
20330.0	MKD	RAF Akrotiri, CYP	VFT: 0732-1800 ryi COMB
20338.0	D6B 403	PTT Moroni, COM	VFT: ARQ-M2 96 Bd: A: 1522 to Paris
20343.2	D6B 403	PTT Moroni, COM	SSB
20346.0	D6B 403	PTT Moroni, COM	SSB
20348.1	AOK	USN Rota, E	75 Bd: 0802+1103+1534 foxes without ID
20350.0	NBA	USN Balboa, PNR	75 Bd: 1225-2240 ry or to CXR or HDN or YWM
20351.5	9RE 203	PTT Lubumbashi, ZAI	ARQ-M2-242 96 Bd: A: 1449 to Brussels B: 1556 tfc, 1650 msgs [LUM]
20352.0	'DOR'	MFA Sofia, BUL	75 Bd: 1030+1058 ry
20372.0	IRS 23	ANSA Rome, I	1400 F nx, 1500 E nx, 1600 F nx
20385.0	'RFFX'	FF Versailles, F	ARQ-E 72 Bd: 0756 tfc to 'RFFXI', 1423 msgs + encrypted tfc after "KKKK..." to 'RFFXI' [XXI]
20401.5		Indonesian E Dar es Salaam, TZA	SITOR-A: 0919+1032+1332 msgs to Jakarta
20401.7	YWM	VN Maracaibo, VEN	75 Bd: 1922+2115 tfc
20405.0	CLP 1	MFA Habana, CUB	2030 msgs to CLP 18 CW
20406.5		Indonesian E Jeddah, ARS	SITOR-A: 1453 msg to Jakarta
20415.0	D6B 404	PTT Moroni, COM	SSB
20418.0	SNN 299	MFA Warsaw, POL	POL-ARQ: 1804 final tfc, s. off
20420.0	D6B 404	PTT Moroni, COM	SSB
20421.5		German E Nouakchott, MTN	ARQ-E 96 Bd: 1415 encrypted msg tfc to DMK
		German E Tel Aviv, ISR	ARQ-E 96 Bd: 0600 msg to DMK
20425.0	MKD	RAF Akrotiri, CYP	0713 test
20429.0	'U'	Bcn. Murmansk, RU, URS	CW (hx 10214.5 kHz)
20434.0	CLP 1	MFA Habana, CUB	CW
20447.0	CXR	UN Montevideo, URG	75 Bd: 2000 clg OBC
20456.5	'C37'	UNID station (1090)	ARQ-E 192 Bd: 0859-1906 encrypted tfc
20465.7	4UA	UNO Rawalpindi, PAK	VFT: 75 Bd: 0715+0955 ry
20467.0	BPA	Urumqi Air, CHN	CW
20469.0	AXM 37	Canberra Meteo, ACT, AUS	0015 ry, 1635 test (wx) *FAX // 2628.0 kHz $*
20473.5	CXR	UN Montevideo, URG	75 Bd: 1258-2314 ry or to HDN or LOL or NBA or OBC or PWZ or YWM or 5KM
20482.5		VoA La Union, P. I., PHL	75 Bd: 0000-0700 E nx
20484.0	RIT	SN Vaygach, RU, URS	CW
20490.0	AQP 10	PN Karachi, PAK	CW
	'RBSM'	PN Karachi, PAK	75 Bd: 2015 ry, 2100 wx
20495.0	CXR	UN Montevideo, URG	75 Bd: 1530 clg HDN, 1930 clg + tfc to YWM
20505.0		UNID station (990)	ARQ-E 192 Bd: 1232-1452 encrypted tfc
20525.0		UNID station (190)	ARQ-E 192 Bd: 0930 encrypted tfc

20527.0	NPN	USN Apra Harbour, GUM	COMB
20531.5	HDN	EN Quito, EQA	75 Bd: 1530 ry
20556.6	'P6Z'	MFA Paris, F	FEC-A 144 Bd: 0740+1450+1600 msg (5lgs)
20560.0		JANA Tripoli, LBY	1600+1700 E nx
20568.0	KRH 50	USE London, G	CW
20590.3	HBD 20	MFA Berne, SUI	SITOR-A: 1452 tfc to HBD 46
	HBD 46	Swiss E Habana, CUB	SITOR-A: 1620 msgs to HBD 20
20596.0	HBD 20	MFA Berne, SUI	SITOR-A: 0835 msg; 0925 msg (F nx), 1048 tfc
20598.0	HBD 20	MFA Berne, SUI	SITOR-A: 0745+1606+1746 tfc to HBD 33 or KNY 27
	KNY 27	Swiss E Wash., DC, USA	SITOR-A: 1746 msg (5lgs) to HBD 20
20603.2	HBD 20	MFA Berne, SUI	SITOR-A: 0854 tfc to Soul
	HBD ..	Swiss E Soul, KOR	SITOR-A: 0854 tfc + msgs to HBD 20
20605.3	HBD 20	MFA Berne, SUI	SITOR-A: 1200+1242 tfc; 1456 final tfc to HBD 30, s. off
	HBD 30	Swiss E Lagos, NIG	SITOR-A: 1456 tfc to HBD 20, s. off
	HBD 32	Swiss E Brasilia, B	SITOR-A: 1806 tfc to HBD 20
	HBD 46	Swiss E Habana, CUB	SITOR-A: 1458 tfc to HBD 20
	HBD 61	Swiss E Cairo, EGY	SITOR-A: 1149 msgs to HBD 20
	HBD 71	Swiss E Tel Aviv, ISR	SITOR-A: 0935+1242 tfc to HBD 20
20606.9	SAM	MFA Stockholm, S	SWED-ARQ: 1120 msg to African embassies, 1914 tfc
20609.5	HBD 20	MFA Berne, SUI	SITOR-A: 0925 msg (F nx), not // 20596.0 kHz; 1414 msg (5lgs)
20615.0	RCC 75	TASS Moscow, RU, URS	1300+1700 E nx
20619.0	OMZ	MFA Prague, TCH	75 Bd: 1500 msgs to KNY 23
20623.0	5KM	CN Bogota, CLM	1840+1915 clg LOL
20633.7	'RFVI'	FF Le Port, REU	ARQ-E3 100 Bd: 1005+1150 msgs to 'RFFA', 1750 "controle de voie" to 'RFFA' [REI]
20650.0	HGX 21	MFA Budapest, HNG	(hx 10325.0 kHz)
20695.0	RMC 25	APN Moscow, RU, URS	100 Bd: 0700+0800 E nx
20698.0		SAF Moscow, RU, URS	SSB
20710.0		APN Moscow, RU, URS	100 Bd: 0400 R nx wtsca
20715.0	'RFTJD'	FF Douala, CME	ARQ-E3 48 Bd: 1628 msg or encrypted tfc after "KKKK..." to 'RFTJF' [ITF]
20720.0	PPX	EMBRATEL Rio de Jan., B	SSB
20734.0	4UZ	UNO Geneva, SUI	SITOR-A: 0724+1416 tfc to Kabul
		UNO Kabul, AFG	SITOR-A: 0724+1416 tfc to 4UZ
20735.0		MFA Lagos, NIG	FEC-A 96 Bd: 1700 msg (E nx)
20736.0	*LSA 600*	*AP Buenos Aires, ARG*	*FAX // 5777.5 kHz*
20741.1	VER	CF Ottawa, ONT, CAN	ARQ-M2 96 Bd: A: 1730 encrypted tfc
20750.0	OEC	MFA Vienna, AUT	SI-ARQ 96 Bd: 5 characters: 0809 tfc to OEC 64
	SAM	MFA Stockholm, S	SWED-ARQ: 1319 tfc
20753.0	HBC 88	ICRC Geneva, SUI	SSB
	6TR 88	ICRC Khartoum, SDN	SSB
20754.4	HBC 88	ICRC Geneva, SUI	SITOR-A: 0839 tfc to Lagos, 1023 tfc to 5XR 88
	5XR 88	ICRC Kampala, UGA	SITOR-A: 0850+1320-1450 msgs to HBC 88

20754.4		ICRC Lagos, NIG	SITOR-A: 0839 msg to HBC 88
20765.2	CLP 3	Cuban E Beirut, LBN	0720 msgs CW
20765.5	CLP 4	Cuban E Bissau, GNB	CW
20777.0		MFA Dhaka, BGD	SITOR-A: 1323+1410 msg
20787.0	CLP 1	MFA Habana, CUB	1528+1628+2215 msg
20801.5	T6U 24	ICRC Kabul, AFG	SITOR-A: 0800-1340 msgs to HBC 88
20805.2	'RFQP'	FF Jibuti, DJI	ARQ-M2 200 Bd: A: 1020 "controle de voie" to 'RFFA' [QPE] B: 0720 "controle de voie" to 'RFFA' [QPF]
20812.0	'RFTJD'	FF Douala, CME	ARQ-E3 48 Bd: 1504+1606+1645+2122 "controle de voie" to 'RFFA' [FTI]
20817.4	D6B 408	PTT Moroni, COM	SSB
20820.0	AQP 10	PN Karachi, PAK	CW
20820.5	D6B 408	PTT Moroni, COM	VFT: ARQ-M2 96 Bd: A: 1426 to Paris
20822.0	CLP 5	Cuban E Moscow, RU, URS	0843 msgs to CLP 1
	'RFFXI'	FF Bangui, CAF	ARQ-E 72 Bd: 1706 msg to 'RFFX' [XZI]
20823.7	D6B 408	PTT Moroni, COM	SSB
20827.1	HSF 212WSN	Thai E Washington, DC, USA	100 Bd: 1356 msgs to HSF 212BKK
20834.4	CLP ..	Cuban E Kinshasa, ZAI	1703 msgs (5fgs) to CLP 1
20836.5		MFA Rome, I	SITOR-A: 0921 tfc
20842.0	CLP 5	Cuban E Moscow, RU, URS	1927 tfc to CLP 1
20847.5	FDY	FAF Orleans, F	CW
20850.0	NBA	USN Balboa, PNR	75 Bd: 2155 ry
	RCB 59	R Moscow feeder, RU, URS	SSB
20854.0	FTU 86	DTRE Paris, F	SSB
20856.7	'RFQP'	FF Jibuti, DJI	ARQ-M2 200 Bd: B: 1400+1511+1800 "controle de voie" to 'RFTJ' [FKO]
20860.2	FTU 86	DTRE Paris, F	SSB
20863.0	FDY	FAF Orleans, F	0857-1714 ry
20863.2	FTU 86	DTRE Paris, F	SSB
20870.0	HET 77	Berne Air, SUI	SSB
	ZAY	ATA Tirana, ALB	(hx 10435.0 kHz)
20885.0	AFH	USAF A. AFB, Balboa, PNR	SSB
20910.0	ZRH	SAN Cape Town, AFS	75 Bd: 1300 clg NMN, 1307 AMVER msgs
	9VF 232	ANSA Singapore, SNG	0645 E nx
20919.4	SAM	MFA Stockholm, S	SWED-ARQ: 0909 msg (Swedish nx)
20922.0	SAM	MFA Stockholm, S	SWED-ARQ: 1124 tfc to SAM 76
	SAM 76	Swed. E Pretoria, AFS	SWED-ARQ: 1124 msg to SAM
20925.0	RHA 46	APN Moscow, RU, URS	100 Bd: 0800 F nx, 0900 R nx wtsca / F nx
20930.0	ZSC	PTT Cape Town, AFS	SSB
20933.5	SOV 293B	PAP Warsaw, POL	SITOR-B: 1200 Polish nx
20936.0		many USN MARS stations	SSB
20936.5	SOV 293A	PAP Warsaw, POL	1200 Polish nx
20940.0		ICRC Kabul, AFG	SITOR-A: 1220 msg to HBC 88
20946.0	OEY 32	AA Salzburg, AUT	SSB
	OEY 632	Austr. UNFICYP Larn., CYP	SSB
20950.0		UNID station (290)	ARQ-E 192 Bd: 1418 encrypted tfc
20954.7		MFA Accra, GHA	CW

20960.0		KYODO Singapore, SNG	0430-0600+0610-0640+1000-1100 E nx
20962.0		many CFARS stations	SSB
20965.0	RKB 70	APN Moscow, RU, URS	100 Bd: 1000 R nx wtsca
20970.0		many CFARS stations	SSB
20980.0	MKD	RAF Akrotiri, CYP	VFT: 1308+1511 ryi COMB
20990.0	SAM	MFA Stockholm, S	SWED-ARQ: 0858 tfc to SAM 62
	SAM 62	Swedish E Beijing, CHN	SWED-ARQ: 0858 msgs to SAM
20991.5	'D'	Beacon Odessa, UK, URS	CW
20991.7	'S'	Bcn. Arkhangelsk, RU, URS	CW
20992.0	'C'	Beacon Moscow, RU, URS	CW
		PTT Moscow, RU, URS	SSB
20992.2	'P'	Bcn. Kaliningrad, RU, URS	CW
20992.5	'M'	Beacon Magadan, FE, URS	CW
20993.0	'F'	Bcn. Vladivostok, SE, URS	CW
20994.0	'O'	Beacon Moscow, RU, URS	CW
		many USA MARS stations	SSB
20995.7	'RFPTC'	FF N'djamena, TCD	ARQ-M2 200 Bd: A: 1613 encrypted msg after "KKKK..." to 'RFFA' B: 1530 msg (5lgs) to 'RFFA'
20996.0	CLP 1	MFA Habana, CUB	2017 msg (S nx)
20996.5	EPR 88	ICRC Tehran, IRN	SITOR-A: 1430 tfc to HBC 88
	HBC 88	ICRC Geneva, SUI	SITOR-A: 1430 msgs to EPR 88
20997.0		many USN MARS stations	SSB

21000.0 - 21450.0 AMATEUR + AMATEUR-SATELLITE <510>

21060.0		MFA Islamabad, PAK	SITOR-A: 1400 msgs to Berne
21144.9	UHF 3	Moscow, RU, URS	(hx 7048.6 kHz)
21200.0	XVN 37	VNA Hanoi, VTN	(hx 10600.0 kHz)
21284.0	UMS	Moscow, RU, URS	0900 ry
21305.3	UCL	Donbass, UK, URS	CW
21326.0		MFA Pyongyang, KRE	1243 msgs (5fgs)
21340.0	RDM 78	Tbilisi Meteo, GE, URS	(hx 5335.0 kHz)
21380.0	RIW	SN Khiva, UZ, URS	CW (hx 10690.0 kHz)

21450.0 - 21850.0 BROADCASTING <531>

21760.0	NRV	USCG Apra Harbour, GUM	CW
21764.0	RIW	SN Khiva, UZ, URS	CW
21765.0	GKX 71	Portishead Air, G	SSB
21770.0	*LRO 89*	*REUTER Buenos Aires, ARG*	*FAX // 13753.5 kHz*
21787.0	4QQ 217	DW Trincomalee, SLK	0939 ry, tfc
21793.0	RKE 29	APN Moscow, RU, URS	100 Bd: 0600 E nx
21805.0	RNE 34	APN Moscow, RU, URS	100 Bd: 0500+0700 E nx
21807.5	YOV 28	ROMPRES Bucharest, ROU	0700+0800 E nx
21812.0	RCV	SN Moscow, RU, URS	CW
21815.5	9XK 79	DW Kigali, RRW	100 Bd: 0841 msgs to Cologne
21833.0	NBA	USN Balboa, PNR	75 Bd: 1335 ry, 1342+1740 clg CCS, 1858 ry
21839.0	*NPM*	*USN Pearl Harbour, HWA*	*FAX // 4855.0 kHz $*
21844.7	PCW 1	MFA Den Haag, NLD	SITOR-A: 1332+1642 tfc CW
21845.0	FUM	FN Papeete, Tahiti, OCE	CW

21850.0 - 21870.0 FIXED <539>

21853.0		**MFA Islamabad, PAK**	**SITOR-A: 1247 msg to Paris**
		Pakistan E Paris, F	**SITOR-A: 1247 tfc to Islamabad**
21857.7	**'RFPTC'**	**FF N'djamena, TCD**	**ARQ-M2 200 Bd: A: 1418 "controle de voie"** **B: 1655 msgs**
21858.0		**MFA Oslo, NOR**	**SITOR-A: 0602+0857+1257 tfc**
21862.0	**'DFZG'**	**MFA Belgrade, YUG**	**75 Bd: 0550 msg (SC press review), 1036+1248 msg**

21870.0 - 21924.0 AERONAUTICAL FIXED

21880.0		El Al Tel Aviv, ISR	SSB

21924.0 - 22000.0 AERONAUTICAL MOBILE (R)

21940.0		AMS = W I	SSB
21943.0		AMS = W V	SSB
21946.0		AMS = W I	SSB
21949.0		AMS = W III	SSB
21952.0		AMS = W I	SSB
21955.0		AMS = W IV	SSB
21956.0	**TAD**	**MFA Ankara, TUR**	**FEC-A 144 Bd: 1100 tfc**
21956.6	**CLP 1**	**MFA Habana, CUB**	**1326 msgs (5fgs)**
21958.0		AMS = W I	SSB
21960.0	*RDD 79*	*Moscow Meteo, RU, URS*	*(hx 10980.0 kHz)*
21961.0		AMS = W V	SSB
21964.0		AMS = W II	SSB
21966.0	**TAD**	**MFA Ankara, TUR**	**FEC-A 144 Bd: 0450 msg (5lgs)**
21967.0		AMS = W I	SSB
21970.0		AMS = W III	SSB
21973.0		AMS = W I	SSB
21976.0		AMS = W IV	SSB
21979.0		AMS = W I	SSB
21982.0		AMS = W V	SSB
21985.0		AMS = W II	SSB
21988.0		AMS = W I	SSB
21991.0		AMS = W IV	SSB
21994.0		AMS = W V	SSB
21997.0		AMS = W I	SSB

22000.0 - 22855.0 MARITIME MOBILE <520B 532 540>

22000.0		ship stations, ch 2201	SSB	QSX 22596.0 kHz
22003.1		ship stations, ch 2202	SSB	QSX 22599.1 kHz
22006.2		ship stations, ch 2203	SSB	QSX 22602.2 kHz
22009.3		ship stations, ch 2204	SSB	QSX 22605.3 kHz
22012.4		ship stations, ch 2205	SSB	QSX 22608.4 kHz
22015.5		ship stations, ch 2206	SSB	QSX 22611.5 kHz
22018.6		ship stations, ch 2207	SSB	QSX 22614.6 kHz
22021.7		ship stations, ch 2208	SSB	QSX 22617.7 kHz
22024.8		ship stations, ch 2209	SSB	QSX 22620.8 kHz
22027.9		ship stations, ch 2210	SSB	QSX 22623.9 kHz
22030.0	**MKD**	**RAF Akrotiri, CYP**	**1100 ryi**	
22031.0		ship stations, ch 2211	SSB	QSX 22627.0 kHz
22034.1		ship stations, ch 2212	SSB	QSX 22630.1 kHz

22037.2		ship stations, ch 2213	SSB	QSX 22633.2 kHz
22040.3		ship stations, ch 2214	SSB	QSX 22636.3 kHz
22043.4		ship stations, ch 2215	SSB	QSX 22639.4 kHz
22046.5		ship stations, ch 2216	SSB	QSX 22642.5 kHz
22049.6		ship stations, ch 2217	SSB	QSX 22645.6 kHz
22052.7		ship stations, ch 2218	SSB	QSX 22648.7 kHz
22055.8		ship stations, ch 2219	SSB	QSX 22651.8 kHz
22058.9		ship stations, ch 2220	SSB	QSX 22654.9 kHz
22062.0		ship stations, ch 2221 (WORLDWIDE CALLING FREQ.)	SSB	QSX 22658.0 kHz
22063.0	**LZU 2**	**Sofia Meteo, BUL**	**(sp 11063.0 kHz)**	
22065.1		ship stations, ch 2222	SSB	QSX 22661.1 kHz
22068.2		ship stations, ch 2223	SSB	QSX 22664.2 kHz
22071.0	*CCS*	*CN Santiago, CHL*	*FAX // 4766.0 kHz $*	
22071.3		ship stations, ch 2224	SSB	QSX 22667.3 kHz
22074.4		ship stations, ch 2225	SSB	QSX 22670.4 kHz
22077.5		ship stations, ch 2226	SSB	QSX 22673.5 kHz
22080.6		ship stations, ch 2227	SSB	QSX 22676.6 kHz
22083.7		ship stations, ch 2228	SSB	QSX 22679.7 kHz
22086.8		ship stations, ch 2229	SSB	QSX 22682.8 kHz
22089.9		ship stations, ch 2230	SSB	QSX 22685.9 kHz
22093.0		ship stations, ch 2231	SSB	QSX 22689.0 kHz
22094.5		Roseau Port R, DMA	SSB	
22095.0	RIW	SN Khiva, UZ, URS	CW	
22096.1		ship stations, ch 2232	SSB	QSX 22692.1 kHz
22099.2		ship stations, ch 2233	SSB	QSX 22695.2 kHz
22102.3		ship stations, ch 2234	SSB	QSX 22698.3 kHz
22105.4		ship stations, ch 2235	SSB	QSX 22701.4 kHz
22108.5		ship stations, ch 2236	SSB	QSX 22704.5 kHz
22111.6		ship stations, ch 2237	SSB	QSX 22707.6 kHz
22114.7		ship stations, ch 2238	SSB	QSX 22710.7 kHz
22117.8		ship stations, ch 2239	SSB	QSX 22713.8 kHz
22120.9		ship stations, ch 2240	SSB	QSX 22716.9 kHz
22124.0	WORLDWIDE	COAST AND SHIP STATIONS SIMPLEX FREQUENCY	SSB	
22126.0	**LZU 2**	**Sofia Meteo, BUL**	**(hx 11063.0 kHz)**	
22127.1	WORLDWIDE	COAST AND SHIP STATIONS SIMPLEX FREQUENCY	SSB	
22130.2	WORLDWIDE	COAST AND SHIP STATIONS SIMPLEX FREQUENCY	SSB	
22133.3	WORLDWIDE	COAST AND SHIP STATIONS SIMPLEX FREQUENCY	SSB	
22136.4	WORLDWIDE	COAST AND SHIP STATIONS SIMPLEX FREQUENCY	SSB	
22189.0	**LZU 2**	**Sofia Meteo, BUL**	**(sp 11063.0 kHz)**	
22192.5		ship stations, channel 1	QSX 22561.5 kHz	
22193.0		ship stations, channel 2	QSX 22562.0 kHz	
22193.5		ship stations, channel 3	QSX 22562.5 kHz	
22194.0		ship stations, channel 4	QSX 22563.0 kHz	
22194.5		ship stations, channel 5	QSX 22563.5 kHz	
22195.0		ship stations, channel 6	QSX 22564.0 kHz	
22195.5		ship stations, channel 7	QSX 22564.5 kHz	
22196.0		ship stations, channel 8	QSX 22565.0 kHz	
22196.5		ship stations, channel 9	QSX 22565.5 kHz	
22197.0		ship stations, channel 10	QSX 22566.0 kHz	
22197.5		ship stations, channel 11	QSX 22566.5 kHz	
22198.0		ship stations, channel 12	QSX 22567.0 kHz	
22198.5		ship stations, channel 13	QSX 22567.5 kHz	
22199.0		ship stations, channel 14	QSX 22568.0 kHz	
22199.5		ship stations, channel 15	QSX 22568.5 kHz	

22200.0	**ship stations, channel 16**	**QSX 22569.0 kHz**
22200.5	**ship stations, channel 17**	**QSX 22569.5 kHz**
22201.0	**ship stations, channel 18**	**QSX 22570.0 kHz**
22201.5	**ship stations, channel 19**	**QSX 22570.5 kHz**
22202.0	**ship stations, channel 20**	**QSX 22571.0 kHz**
22202.5	**ship stations, channel 21**	**QSX 22571.5 kHz**
22203.0	**ship stations, channel 22**	**QSX 22572.0 kHz**
22203.5	**ship stations, channel 23**	**QSX 22572.5 kHz**
22204.0	**ship stations, channel 24**	**QSX 22573.0 kHz**
22204.5	**ship stations, channel 25**	**QSX 22573.5 kHz**
22205.0	**ship stations, channel 26**	**QSX 22574.0 kHz**
22205.5	**ship stations, channel 27**	**QSX 22574.5 kHz**
22206.0	**ship stations, channel 28**	**QSX 22575.0 kHz**
22206.5	**ship stations, channel 29**	**QSX 22575.5 kHz**
22207.0	**ship stations, channel 30**	**QSX 22576.0 kHz**
22207.5	**ship stations, channel 31**	**QSX 22576.5 kHz**
22208.0	**ship stations, channel 32**	**QSX 22577.0 kHz**
22208.5	**ship stations, channel 33**	**QSX 22577.5 kHz**
22209.0	**ship stations, channel 34**	**QSX 22578.0 kHz**
22209.5	**ship stations, channel 35**	**QSX 22578.5 kHz**
22210.0	**ship stations, channel 36**	**QSX 22579.0 kHz**
22210.5	**ship stations, channel 37**	**QSX 22579.5 kHz**
22211.0	**ship stations, channel 38**	**QSX 22580.0 kHz**
22211.5	**ship stations, channel 39**	**QSX 22580.5 kHz**
22212.0	**ship stations, channel 40**	**QSX 22581.0 kHz**
22212.5	**ship stations, channel 41**	**QSX 22581.5 kHz**
22213.0	**ship stations, channel 42**	**QSX 22582.0 kHz**
22213.5	**ship stations, channel 43**	**QSX 22582.5 kHz**
22214.0	**ship stations, channel 44**	**QSX 22583.0 kHz**
22214.5	**ship stations, channel 45**	**QSX 22583.5 kHz**
22215.0	**ship stations, channel 46**	**QSX 22584.0 kHz**
22215.5	**ship stations, channel 47**	**QSX 22584.5 kHz**
22216.0	**ship stations, channel 48**	**QSX 22585.0 kHz**
22216.5	**ship stations, channel 49**	**QSX 22585.5 kHz**
22217.0	**ship stations, channel 50**	**QSX 22586.0 kHz**
22217.5	**ship stations, channel 51**	**QSX 22586.5 kHz**
22218.0	**ship stations, channel 52**	**QSX 22587.0 kHz**
22218.5	**ship stations, channel 53**	**QSX 22587.5 kHz**
22219.0	**ship stations, channel 54**	**QSX 22588.0 kHz**
22219.5	**ship stations, channel 55**	**QSX 22588.5 kHz**
22220.0	**ship stations, channel 56**	**QSX 22589.0 kHz**
22220.5	**ship stations, channel 57**	**QSX 22589.5 kHz**
22221.0	**ship stations, channel 58**	**QSX 22590.0 kHz**
22221.5	**ship stations, channel 59**	**QSX 22590.5 kHz**
22222.0	**ship stations, channel 60**	**QSX 22591.0 kHz**
22222.5	**ship stations, channel 61**	**QSX 22591.5 kHz**
22223.0	**ship stations, channel 62**	**QSX 22592.0 kHz**
22223.5	**ship stations, channel 63**	**QSX 22592.5 kHz**
22224.0	**ship stations, channel 64**	**QSX 22593.0 kHz**
22224.5	**ship stations, channel 65**	**QSX 22593.5 kHz**
22225.0	**ship stations, channel 66**	**QSX 22594.0 kHz**
22225.5	**ship stations, channel 67**	**QSX 22594.5 kHz**
22226.0	**ship stations, non-paired**	
	ship stations	**QSX 22387.5 kHz (GKS 7)**
	ship stations	**QSX 22356.8 kHz (SAB 93)**
	ship stations	**QSX 20286.5 kHz (SPW)**
22226.5	**ship stations, non-paired**	
	ship stations	**QSX 22469.5 kHz (SAB 94)**
22228.0	ship stations calling, ch 1	CW
22230.0	ship stations calling, ch 2	CW

22232.0		ship stations calling, ch 3	CW
22234.0		ship stations calling, ch 4	CW
22236.0		ship stations calling, ch 5	CW
22238.0		ship stations calling, ch 6	CW
22240.0		ship stations calling, ch 7	CW
22242.0		ship stations calling, ch 8	CW
22244.0		ship stations calling, ch 9	CW
22246.0		ship stations calling, ch 10	CW
22248.0	**WORLDWIDE**	**SHIP STATIONS DSC FREQ.**	
22248.5	**WORLDWIDE**	**SHIP STATIONS DSC FREQ.**	
22253.9	**SAM**	**MFA Stockholm, S**	**SWED-ARQ: 1110 tfc + msgs to SAM 72**
	SAM 72	**Swedish E Kinshasa, ZAI**	**SWED-ARQ: 1110 tfc to SAM**
22300.5		**ship stations**	**QSX 17214.0 kHz (UTA)**
22312.0	A9M	Hamala R, BHR	CW
22312.5	CWA	Cerrito R, URG	CW
	XSG	Shanghai R, CHN	CW
22315.0	UJY	Kaliningrad R, RU, URS	CW
22315.5	VIP 6	Perth R, WA, AUS	CW
22318.5	FFS 9	Saint Lys R, F	CW
	WLO	Mobile R, AL, USA	CW
	XSV	Tianjin R, CHN	CW
22320.0	WLO	Mobile R, AL, USA	CW
22321.0	**UJY**	**Kaliningrad R, RU, URS**	**0840-1821 ry or R tts wtsca** CW
22322.0	A9M	Hamala R, BHR	CW
22322.5	*NDT*	*USN Yokosuka, J*	*FAX // 5258.0 kHz $*
	UHK	Batumi R, GE, URS	CW
22323.5	DZJ	Bulacan R, PHL	CW
22324.5	PCH 70	Scheveningen R, NLD	CW
22326.0	JNA	JN Tokyo, J	CW
	XSW	Kaohsiung R, TAI	CW
22326.5	*NDT*	*USN Yokosuka, J*	*FAX // 5262.0 kHz $*
22327.5	SVG 7	Athens R, GRC	CW
22329.5	PW.	many BN stations, B	CW
22330.5	D3E 81	Luanda R, AGL	CW
	PWB	BN Belem, B	CW
	PWF	BN Salvador, B	CW
	PWN	BN Natal, B	CW
	4XZ	IN Haifa, ISR	CW
22333.0	URB 2	Klaipeda R, LI, URS	CW
22334.5	**UDK 2**	**Murmansk R, RU, URS**	**(sp 22354.5 kHz)**
	Y5M	Rügen R, D	CW
22335.5	DZI	Bacoor R, PHL	CW
22336.0	TIM	Limon R, CTR	CW
	XSW	Kaohsiung R, TAI	CW
22338.0	KLC	Galveston R, TX, USA	CW
	YIR	Basrah Control R, IRQ	CW
	5RS	Toamasina R, MDG	CW
22338.2	HZG	Dammam R, ARS	CW
22340.0	LZL 7	Bourgas R, BUL	CW
22340.3	DAL	Norddeich R, D	CW
22342.5	HWN	FN Paris, F	CW
22344.0	LZW 7	Varna R, BUL	CW
	S9M	Sao Tome R, STP	CW
22345.4	CLS	Habana F R, CUB	CW
22346.5	LSA 7	Boca R, ARG	CW
	SVI 7	Athens R, GRC	CW
22347.0	**UDK**	**Murmansk R, RU, URS**	**1354 + 1447 R tts wtsca**
22347.5	ZSC 20	Cape Town R, AFS	CW

22348.5	VHI 7	RAN Darwin, NT, AUS	CW
	WCC	Chatham R, MA, USA	CW
22349.5	UFN	Novorossiysk R, RU, URS	CW
22350.0	**UFL**	**Vladivostok R, SE, URS**	**0215-0841 R tts wtsca** CW
22351.5	DUN	PN Manila, PHL	CW
	OST 72	Oostende R, BEL	CW
	XSQ	Guangzhou R, CHN	CW
22352.5	PPR	Rio de Janeiro R, B	CW
22354.0	PPL	Belem R, B	CW
22354.5	**UDK 2**	**Murmansk R, RU, URS**	**0918-1337 R tts wtsca** CW
22355.0	PPJ	Juncao R, B	CW
	UJY	Kaliningrad R, RU, URS	CW
22356.8	**SAB 93**	**Goeteborg R, S**	**SITOR-A: 0734-2225 tts; QSX 22226.0 kHz** **SITOR-B: 1700 Swedish nx**
22357.5	CLA 51	Habana R, CUB	CW
22360.5	CBV	DGTMMM Valpar. R, CHL	CW
22361.0	**DFW 36**	**HAB Hamburg, D**	**SITOR-B: 0900 G nx**
	DGW 36	HAB Hamburg, D	CW
22362.0	TCR	TURBAN Istanbul R, TUR	CW
22363.0	XSG	Shanghai R, CHN	CW
22365.0	5BA	Nicosia R, CYP	CW
22366.5	JGC	Yokohama R, J	CW
	JNE	Hiroshima R, J	CW
	WCC	Chatham R, MA, USA	CW
22368.0	VAI	CCG Vancouver, BC, CAN	CW
22371.0	**URL**	**Sevastopol' R, UK, URS**	**0805 + 1417 + 1433 R tts wtsca** CW
22372.5	IAR 22	Rome R, I	CW
22374.0	LZW 7	Varna R, BUL	CW
22374.5	**UDK 2**	**Murmansk R, RU, URS**	**(sp 22354.5 kHz)**
22375.0	XYR 24	Yangon R, MYA	CW
22376.0	**WORLDWIDE**	**NBDPT MSI FREQUENCY**	
	IAR 2	Rome R, I	CW
22378.0	IAR 32	Rome R, I	CW
	VTG 9	IN Bombay, IND	CW
22379.5	ZLO 7	RNZN Waiouru, NZL	CW
22383.0	URL	Sevastopol' R, UK, URS	CW
22384.0	EDF 6	Madrid R, E	CW
22385.0	XDA	Mexico City R, MEX	CW
22386.0	JCT	Choshi R, J	CW
22387.0	UTA	Tallinn R, ES, URS	CW
	VCS	CCG Halifax, NS, CAN	CW
22387.5	*GKS 7*	*Portishead R, G*	*scheduled; QSX 22226.0 kHz*
22390.0	FUF	FN Fort de France, MRT	CW
	HAR	Budapest R, HNG	CW
	XSJ	Zhanjiang R, CHN	CW
22393.0	Y5M	Rügen R, D	CW
22393.2	ZRH 7	SAN Cape Town, AFS	CW
22395.0	HLF	Soul R, KOR	CW
	OBY 2	Paita R, PRU	CW
	UAT	**Moscow R, RU, URS**	**SITOR-A: 1456 R tts wtsca** CW
22396.0	CLA 50	Habana R, CUB	CW
	JOS	Nagasaki R, J	CW
	LFL	Rogaland R, NOR	CW
	OFJ 22	Helsinki R, FNL	CW
22398.0	JNA	JN Tokyo, J	CW

22399.0	SPH 9	Gdynia R, POL	CW
22400.0	XDA	Mexico City R, MEX	CW
22401.0	XSG	Shanghai R, CHN	CW
	Y5M	Rügen R, D	CW **SITOR-B: 1600 G nx**
22402.0	DUN	PN Manila, PHL	CW
22403.0	UJY	Kaliningrad R, RU, URS	CW
22404.0	OXZ 92	Lyngby R, DNK	CW
22405.0	PWN	BN Natal, B	CW
	UKA	**Vladivostok R, SE, URS**	**0208 + 0220 R tts wtsca**
22407.0	SPI 9	Gdynia R, POL	CW
22407.3	GKC 7	Portishead R, G	CW
22408.3	ZLP 7	RNZN Waiouru, NZL	CW
22409.0	JOR	Nagasaki R, J	CW
22410.0	UNQ	Novorossiysk R, RU, URS	CW
	'98 DDX'	**SN Madrid, E**	**100 Bd: 1053 + 1535 encrypted tfc**
22410.8	SVB 7	Athens R, GRC	CW
22411.0	UJQ 7	Kiyev R, UK, URS	CW
22413.0	SAG 9	Goeteborg R, S	CW
22415.0	DAF	Norddeich R, D	CW
	LZL 7	Bourgas R, BUL	CW
22416.0	ELZ	Cape Palmas R, LBR	CW
22417.0	SVA 7	Athens R, GRC	CW
22418.0	PPO	Olinda R, B	CW
	WSC	Tuckerton R, NJ, USA	CW
22419.0	JCS	Choshi R, J	CW
	LPD 91	General Pacheco R, ARG	CW
	OXZ 9	Lyngby R, DNK	CW
22420.0	PPR	Rio de Janeiro R, B	CW
22422.0	**GYA**	**RN London, G**	**75 Bd: 0518 + 0940-1148 test**
	MKD	**RAF Akrotiri, CYP**	**1116 ryi**
	Y5M	Rügen R, D	CW
22423.0	UAT	Moscow R, RU, URS	CW
22424.0	PPR	Rio de Janeiro R, B	CW
22425.0	AQP 8	PN Karachi, PAK	CW
	KFS	San Francisco R, CA, USA	CW
	LGG	Rogaland R, NOR	CW
22426.0	DZY 7	Manila R, PHL	CW
22427.0	HZG	Dammam R, ARS	CW
22428.0	CLS	Habana F R, CUB	CW
	9VG 59	Singapore R, SNG	CW
22429.0	HMZ	Pyongyang R, KRE	CW
	PPL	Belem R, B	CW
22430.0	URL	Sevastopol' R, UK, URS	CW
22431.0	PKX	Jakarta R, INS	CW
	WNU	Slidell R, LA, USA	CW
	9PA	Banana R, ZAI	CW
22432.0	GKD 7	Portishead R, G	CW
22435.0	UFL	Vladivostok R, SE, URS	CW
22436.0	PPJ	Juncao R, B	CW
22437.0	Y5M	Rügen R, D	CW
22438.0	DZW	Manila R, PHL	CW
22438.5	SAB 9	Goeteborg R, S	CW
22440.0	CLY	Habana R, CUB	CW
	JOU	Nagasaki R, J	CW
	UJQ	*Kiyev R, UK, URS*	*FAX // 12828.0 kHz* CW
22441.0	PPR	Rio de Janeiro R, B	CW
22443.0	EQI	Abbas R, IRN	CW

22443.0	EQK	Khoramshahr R, IRN	CW
	OST	**Oostende R, BEL**	**SITOR-A: 0922-1800 tts** CW
	PWZ	BN Rio de Janeiro, B	CW
	YUR 9	Rijeka R, YUG	CW
22444.0	PPO	Olinda R, B	CW
22445.0	PWZ	BN Rio de Janeiro, B	CW
22446.0	EAD 6	Madrid R, E	CW
22447.0	CBV	DGTMMM Valpar. R, CHL	CW
	FUV	FN Jibuti, DJI	CW
22448.0	YQI 7	Constanta R, ROU	CW
22448.7	GKB 7	Portishead R, G	CW
22450.0	PPO	Olinda R, B	CW
	ROT	**SN Moscow, RU, URS**	**1430 wx** CW
22452.0	XSQ 7	Guangzhou R, CHN	CW
22454.0	HPP	Panama R, PNR	CW
22454.2	GYC 7	RN London, G	CW
22454.3	**GYA**	**RN London, G**	**75 Bd: 0732-1927 test**
22455.0	PWZ	BN Rio de Janeiro, B	CW
	UDH	Riga R, LA, URS	CW
	UFH	Petropavl.-Km. R, FE, URS	CW
	ZSC 40	Cape Town R, AFS	CW
22458.0	WNU	Slidell R, LA, USA	CW
22459.0	OXZ 93	Lyngby R, DNK	CW
	XSX	Keelung R, TAI	CW
22460.0	OMP 71	Prague R, TCH	CW
22461.0	FUJ	FN Noumea, NCL	CW
	PW.	many BN stations, B	CW
22463.0	JCU	Choshi R, J	CW
22464.0	**UFB**	**Odessa R, UK, URS**	**0922+1442-1532 R tts wtsca**
22465.0	OBF 4	Mollendo R, PRU	CW
	XFA	Acapulco R, MEX	CW
	9MG 12	Georgetown R, Pin. I., MLA	CW
22467.0	GKA 7	Portishead R, G	CW
	KLC	Galveston R, TX, USA	CW
22469.5	***SAB 94***	***Goeteborg R, S***	***scheduled; QSX 22226.5 kHz***
22471.0	XDA	Mexico City R, MEX	CW
22471.5	SVD 7	Athens R, GRC	CW
22472.0	NMO	USCG Honolulu, HWA	CW
22473.0	CBV	DGTMMM Valpar. R, CHL	CW
	LFG	Rogaland R, NOR	CW
22474.0	VIS 42	Sydney R, NSW, AUS	CW
22475.0	PPL	Belem R, B	CW
22476.0	DAM	Norddeich R, D	CW
	NMO	USCG Honolulu, HWA	CW
22477.0	XFU	Veracruz R, MEX	CW
22477.5	***KPH***	***San Francisco R, CA, USA***	***scheduled*** CW
22479.0	CUL 24	Lisbon R, POR	CW
	KPH	San Francisco R, CA, USA	CW
	9VG 27	Singapore R, SNG	CW
22481.0	Y5M	Rügen R, D	CW
22482.0	HLG	Soul R, KOR	CW
22484.0	HZG	Dammam R, ARS	CW
22485.0	UBF 2	Leningrad R, RU, URS	CW
	VIX 7	RAN Canberra, ACT, AUS	CW
22486.0	LZW 7	Varna R, BUL	CW
	OMP 7	Prague R, TCH	CW

22487.0	**WLO**	**Mobile R, AL, USA**	**SITOR-B: H+35 tfc list, wx**
			CW
	XSV	Tianjin R, CHN	CW
22490.0	DZZ	Manila R, PHL	CW
	UXN	**Arkhangelsk R, RU, URS**	**1032 ry**
	5RS	Toamasina R, MDG	CW
22491.0	ELC	Monrovia R, LBR	CW
	4XO	Haifa R, ISR	CW
22493.0	UAT	Moscow R, RU, URS	CW
22494.0	GKK 7	Portishead R, G	CW
22495.0	SPA 9	Gdynia R, POL	CW
	VIS 43	Sydney R, NSW, AUS	CW
22496.0	PPJ	Juncao R, B	CW
22497.0	**UDK 2**	**Murmansk R, RU, URS**	**1135+1306+1318+1929 R tts wtsca**
			CW
22499.0	HPP	Panama R, PNR	CW
22500.0	HAR	Budapest R, HNG	CW
	SVF 7	Athens R, GRC	CW
	3AC 32	Monte Carlo R, MCO	CW
22501.0	**UFN**	**Novorossiysk R, RU, URS**	**1358 R tts wtsca**
22503.0	GKG 7	Portishead R, G	CW
22504.0	9KK 23	Safat R, KWT	CW
22505.0	SPE 91	Szczecin R, POL	CW
22509.0	FFL 9	Saint Lys R, F	CW
22511.0	XFN	Progreso R, MEX	CW
22512.0	UAT	Moscow R, RU, URS	CW
22513.5	LPD 28	General Pacheco R, ARG	CW
22515.0	DAN	Norddeich R, D	CW
	KFS	San Francisco R, CA, USA	CW
22516.0	XDA	Mexico City R, MEX	CW
22518.0	WCC	Chatham R, MA, USA	CW
22520.0	LZL 7	Bourgas R, BUL	CW
	UQK	Riga R, LA, URS	CW
22521.0	WCC	Chatham R, MA, USA	CW
22524.0	JFA	Matsudo F R, J	CW
22525.0	IRM	CIRM Rome, I	CW
	UAI 3	Nakhodka R, SE, URS	CW
	XSQ	Guangzhou R, CHN	CW
22525.5	GKH 7	Portishead R, G	CW
22525.9	GKN 7	Portishead R, G	CW
22527.0	GKM 7	Portishead R, G	CW
	NMC	*USCG S. Franc., CA, USA*	*FAX // 4346.0 kHz $*
	NRV	USCG Apra Harbour, GUM	CW
22527.9	GKO 7	Portishead R, G	CW
22528.5	GKI 7	Portishead R, G	CW
22530.0	PWZ	BN Rio de Janeiro, B	CW
	URL	Sevastopol' R, UK, URS	CW
22533.0	EDZ 7	Madrid R, E	CW
	OST 7	Oostende R, BEL	CW
	ZLB 7	Awarua R, NZL	CW
	ZSJ 7	SAN Cape Town, AFS	CW
22534.0	PPR	Rio de Janeiro R, B	CW
22536.0	VPS 22	Victoria Island R, HKG	CW
22537.0	FUF	FN Fort de France, MRT	CW
22538.0	DZN	Navotas R, PHL	CW
22539.0	KLB	Seattle R, WA, USA	CW
	PCH 71	Scheveningen R, NLD	CW
22542.0	*JJC*	*Tokyo R, J*	*FAX // 4316.0 kHz*
22543.0	7TA 12	El Djaza'ir R, ALG	CW

22543.0	7TF	Skikda R, ALG	CW
22544.0	FUM	FN Papeete, Tahiti, OCE	CW
22545.0	GKJ 7	Portishead R, G	CW
	NMN	USCG Portsm., VA, USA	CW
	Y5M	Rügen R, D	CW
22546.0	CBV	DGTMMM Valpar. R, CHL	CW
22547.0	LSA	Boca R, ARG	CW
22548.0	TAH	Istanbul R, TUR	CW
22550.0	Y5M	Rügen R, D	CW
22550.4	**GYA**	**RN London, G**	**75 Bd: 1149+1520 test**
22551.0	SPE 92	Szczecin R, POL	CW
	VWB	Bombay R, IND	CW
22554.0	LZS 38	BN Sofia, BUL	CW
22555.0	OBQ 5	Iquitos R, PRU	CW
	UFB	Odessa R, UK, URS	CW
22555.5	LSA	Boca R, ARG	CW
22557.0	KPH	San Francisco R, CA, USA	CW
22560.0	**URL**	**Sevastopol' R, UK, URS**	**1312+1330 R tts wtsca** CW
22561.5		coast stations, channel 1	QSX 22192.5 kHz
	DCN	*Norddeich R, D*	*scheduled*
	KFS	*San Francisco R, CA, USA*	*scheduled*
	9MG 18	*Georgetown R, Pin. I., MLA*	*scheduled*
22562.0		coast stations, channel 2	QSX 22193.0 kHz
	GKE 7	Portishead R, G	SITOR-A: 0458-1925 tts CW
	WNU	*Slidell R, LA, USA*	*scheduled*
	ZLW	*Wellington R, NZL*	*scheduled*
22562.5		coast stations, channel 3	QSX 22193.5 kHz
	KFS	*San Francisco R, CA, USA*	*scheduled*
	OST 76	*Oostende R, BEL*	*scheduled*
	UFH	*Petropavl.-Km. R, FE, URS*	*scheduled*
	XSV	*Tianjin R, CHN*	*scheduled*
22563.0		coast stations, channel 4	QSX 22194.0 kHz
	FFT 91	Saint Lys R, F	SITOR-A: 0810-1620 tts SITOR-B: 0800+0900+1000+1100+1600 tfc list or wx CW
22563.5		coast stations, channel 5	QSX 22194.5 kHz
	LGG 2	Rogaland R, NOR	SITOR-A: 0735+1134-1328 tts CW
	WLO	*Mobile R, AL, USA*	*scheduled*
	5RS	*Toamasina R, MDG*	*scheduled*
22564.0		coast stations, channel 6	QSX 22195.0 kHz
	EHY	*Madrid R, E*	*scheduled*
	LZW	*Varna R, BUL*	*scheduled*
	SPB 91	Szczecin R, POL	SITOR-A: 1223-1710 tts SITOR-B: 1605 tts CW
	VIP 36	*Perth R, WA, AUS*	*scheduled*
	VPS 97	Victoria Island R, HKG	SITOR-A: 0430-0740+1335 tts CW
	WLO	Mobile R, AL, USA	SITOR-B: 0100+0500+0700+1700 schedule
	WSC	Tuckerton R, NJ, USA	CW
	Y5M	*Rügen R, D*	*scheduled*
22564.5		coast stations, channel 7	QSX 22195.5 kHz
	SAB 907	Goeteborg R, S	SITOR-A: 0736-1826 tts
	WAH	*Saint Thomas R, VIR*	*scheduled*
	XSG	*Shanghai R, CHN*	*scheduled*

22565.0		coast stations, channel 8	QSX 22196.0 kHz
	PCH 75	Scheveningen R, NLD	SITOR-A: 0656-1743 tts CW
	WPD	*Tampa R, FL, USA*	*scheduled*
22565.5		coast stations, channel 9	QSX 22196.5 kHz
	CBV	DGTMMM Valparaiso R, CHL	SITOR-A: 1347 + 1841 + 2000 tts CW
	KLC	*Galveston R, TX, USA*	*scheduled*
22566.0		coast stations, channel 10	QSX 22197.0 kHz
	J2A	*Jibuti R, DJI*	*scheduled*
	S9M	*Sao Tome R, STP*	*scheduled*
	WLO	*Mobile R, AL, USA*	*scheduled*
	9VG 84	Singapore R, SNG	SITOR-A: 0131-1608 tts CW
22566.5		coast stations, channel 11	QSX 22197.5 kHz
	CBV	*DGTMMM Valpar. R, CHL*	*scheduled*
	HEC 52	Berne R, SUI	SITOR-A: 0656-1823 tts CW
	WLO	*Mobile R, AL, USA*	*scheduled*
	XSQ	*Guangzhou R, CHN*	*scheduled*
22567.0		coast stations, channel 12	QSX 22198.0 kHz
	NMF	*USCG Boston, MA, USA*	*scheduled*
	NRV	USCG Apra Harbour, GUM	SITOR-B: 0030 + 0530 + 2330 wx
	OST 77	*Oostende R, BEL*	*scheduled*
22567.5		coast stations, channel 13	QSX 22198.5 kHz
	KPH	San Francisco R, CA, USA	SITOR-B: 1700 + 2100 tfc list
	UAT	Moscow R, RU, URS	SITOR-A: 0503-1521 R tts wtsca CW
	WCC	*Chatham R, MA, USA*	*scheduled*
22568.0		coast stations, channel 14	QSX 22199.0 kHz
	KPH	San Francisco R, CA, USA	SITOR-A: 0642 tts SITOR-B: 1900 tfc list CW
	PCH 76	Scheveningen R, NLD	SITOR-A: 0812-1610 tts SITOR-B: 1514 schedule, tfc list CW
	VIS 71	Sydney R, NSW, AUS	SITOR-A: 0823 + 0926 tts CW
	WCC	*Chatham R, MA, USA*	*scheduled*
	Y5M	*Rügen R, D*	*scheduled*
22568.5		coast stations, channel 15	QSX 22199.5 kHz
	DCM	*Norddeich R, D*	*scheduled*
	UXN	*Arkhangelsk R, RU, URS*	*scheduled*
	WLO	Mobile R, AL, USA	SITOR-A: 1236-0655 tts CW
22569.0		coast stations, channel 16	QSX 22200.0 kHz
	COB 36	*Flota Cubana F R, CUB*	*scheduled*
	UPB	*Provideniya R, FE, URS*	*scheduled*
	VWM	*Madras R, IND*	*scheduled*
22569.5		coast stations, channel 17	QSX 22200.5 kHz
	KLC	*Galveston R, TX, USA*	*scheduled*
	UCO	*Yalta R, UK, URS*	*scheduled*
22570.0		coast stations, channel 18	QSX 22201.0 kHz
	OXZ	Lyngby R, DNK	SITOR-A: 0650-1618 tts SITOR-B: 1630 Danish nx
	WPD	*Tampa R, FL, USA*	*scheduled*
22570.5		coast stations, channel 19	QSX 22201.5 kHz
	WNU	*Slidell R, LA, USA*	*scheduled*
22571.0		coast stations, channel 20	QSX 22202.0 kHz
	EHY	*Madrid R, E*	*scheduled*

22571.0	*HZG*	*Dammam R, ARS*	*scheduled*
	UFN	Novorossiysk R, RU, URS	SITOR-A: 0505-1514 R tts wtsca CW
	YUR	*Rijeka R, YUG*	*scheduled*
22571.5		coast stations, channel 21	QSX 22202.5 kHz
	IAR	*Rome R, I*	*scheduled*
	KPH	*San Francisco R, CA, USA*	*scheduled*
	WCC	Chatham R, MA, USA	SITOR-A: 1056-1612 tts SITOR-B: 0500+1700 wx CW
22572.0		coast stations, channel 22	QSX 22203.0 kHz
	KLC	*Galveston R, TX, USA*	*scheduled*
	KPH	*San Francisco R, CA, USA*	*scheduled*
	3AC 42	*Monte Carlo R, MCO*	*scheduled*
22572.5		coast stations, channel 23	QSX 22203.5 kHz
	SVT 7	*Athens R, GRC*	*scheduled*
22573.0		coast stations, channel 24	QSX 22204.0 kHz
	UKA	Vladivostok R, SE, URS	SITOR-A: 1033 R tts wtsca
22573.5		coast stations, channel 25	QSX 22204.5 kHz
	FFT 93	*Saint Lys R, F*	*scheduled*
	UJY	Kaliningrad R, RU, URS	0927-1741 R tts wtsca
	WLO	*Mobile R, AL, USA*	*scheduled*
22574.0		coast stations, channel 26	QSX 22205.0 kHz
	CLA	*Habana R, CUB*	*scheduled*
	UJQ	*Kiyev R, UK, URS*	*scheduled*
	9VG 98	Singapore R, SNG	SITOR-A: 1405+1612 tts CW
22574.5		coast stations, channel 27	QSX 22205.5 kHz
	IAR	*Rome R, I*	*scheduled*
	NMN	USCG Portsmouth, VA, USA	SITOR-A: 1346+1406+1612 tts CW
	NMO	*USCG Honolulu, HWA*	*scheduled*
22575.0		coast stations, channel 28	QSX 22206.0 kHz
	KFS	*San Francisco R, CA, USA*	*scheduled*
	UGH 2	*Juzno R, FE, URS*	*scheduled*
22575.5		coast stations, channel 29	QSX 22206.5 kHz
	FFT 92	Saint Lys R, F	SITOR-A: 0944+1156+1513+1612 tts CW
	UKX	*Nakhodka R, SE, URS*	*scheduled*
	WLO	*Mobile R, AL, USA*	*scheduled*
22576.0		coast stations, channel 30	QSX 22207.0 kHz
	DCL	Norddeich R, D	SITOR-A: 0506-1742 tts
	YUR	*Rijeka R, YUG*	*scheduled*
22576.5		coast stations, channel 31	QSX 22207.5 kHz
	HPP	*Panama R, PNR*	*scheduled*
	VAI	*CCG Vancouver, BC, CAN*	*scheduled*
22577.0		coast stations, channel 32	QSX 22208.0 kHz
	SAB 932	Goeteborg R, S	SITOR-A: 0737-1824 tts
22577.5		coast stations, channel 33	QSX 22208.5 kHz
	UDK 2	*Murmansk R, RU, URS*	*scheduled*
	8Q2	*Male R, MLD*	*scheduled*
22578.0		coast stations, channel 34	QSX 22209.0 kHz
	GKP 7	Portishead R, G	SITOR-A: 0506-1724 tts CW
	UQB	*Kholmsk R, FE, URS*	*scheduled*
	9VG 99	Singapore R, SNG	SITOR-A: 0021+0824+0928 tts CW
22578.5		coast stations, channel 35	QSX 22209.5 kHz
	3AC 52	*Monte Carlo R, MCO*	*scheduled*

22579.0		coast stations, channel 36	QSX 22210.0 kHz
	CLA	*Habana R, CUB*	*scheduled*
	OXZ	Lyngby R, DNK	SITOR-A: 0944-1613 tts CW
	WPD	*Tampa R, FL, USA*	*scheduled*
22579.5		coast stations, channel 37	QSX 22210.5 kHz
22580.0		coast stations, channel 38	QSX 22211.0 kHz
	KPH	*San Francisco R, CA, USA*	*scheduled*
	LSD 836	*Buenos Aires R, ARG*	*scheduled*
	UBN	Zhdanov R, UK, URS	0850+1512 R tts wtsca
	UDH	*Riga R, LA, URS*	*scheduled*
	WCC	*Chatham R, MA, USA*	*scheduled*
22580.5		coast stations, channel 39	QSX 22211.5 kHz
22581.0		coast stations, channel 40	QSX 22212.0 kHz
	EHY	*Madrid R, E*	*scheduled*
	UKK 3	Nakhodka R, SE, URS	SITOR-B: 1415 wx
	Y5M	Rügen R, D	SITOR-A: 1158 tts SITOR-B: 1500 G nx
22581.5		coast stations, channel 41	QSX 22212.5 kHz
	LSD 836	*Buenos Aires R, ARG*	*scheduled*
	UHK	*Batumi R, GE, URS*	*scheduled*
	UMV	*Murmansk R, RU, URS*	*scheduled*
22582.0		coast stations, channel 42	QSX 22213.0 kHz
	UFB	*Odessa R, UK, URS*	*scheduled*
	YUS	*Split R, YUG*	*scheduled*
22582.5		coast stations, channel 43	QSX 22213.5 kHz
	HPP	*Panama R, PNR*	*scheduled*
	UFN	Novorossiysk R, RU, URS	SITOR-A: 0940+1158+1510 R tts wtsca CW
22583.0		coast stations, channel 44	QSX 22214.0 kHz
	IAR	*Rome R, I*	*scheduled*
	LSD 836	*Buenos Aires R, ARG*	*scheduled*
	UBE 2	*Petropavl.-Km. R, FE, URS*	*scheduled*
22583.5		coast stations, channel 45	QSX 22214.5 kHz
22584.0		coast stations, channel 46	QSX 22215.0 kHz
	A9M	Hamala R, BHR	SITOR-A: 0834+0938+1220 tts CW
22584.5		coast stations, channel 47	QSX 22215.5 kHz
	KFS	*San Francisco R, CA, USA*	*scheduled*
	UFM 3	*Nevelsk R, FE, URS*	*scheduled*
22585.0		coast stations, channel 48	QSX 22216.0 kHz
	KLC	*Galveston R, TX, USA*	*scheduled*
	YUW	*Bar R, YUG*	*scheduled*
22585.5		coast stations, channel 49	QSX 22216.5 kHz
	SVU 7	Athens R, GRC	SITOR-A: 0808-1613 tts SITOR-B: 1300 Greek nx CW
22586.0		coast stations, channel 50	QSX 22217.0 kHz
	HEC 62	Berne R, SUI	SITOR-A: 0814-1615 tts CW
	UQK	*Riga R, LA, URS*	*scheduled*
22586.5		coast stations, channel 51	QSX 22217.5 kHz
22587.0		coast stations, channel 52	QSX 22218.0 kHz
	LGG 3	Rogaland R, NOR	SITOR-A: 0653-1825 tts SITOR-B: 1200+1600 tfc list CW
	WNU	*Slidell R, LA, USA*	*scheduled*
22587.5		coast stations, channel 53	QSX 22218.5 kHz

22588.0		coast stations, channel 54	QSX 22219.0 kHz
	WLO	*Mobile R, AL, USA*	*scheduled*
	Y5M	*Rügen R, D*	*scheduled*
22588.5		coast stations, channel 55	QSX 22219.5 kHz
	HEC 72	*Berne R, SUI*	*scheduled*
22589.0		coast stations, channel 56	QSX 22220.0 kHz
	WLO	Mobile R, AL, USA	SITOR-B: 1335 wx, 1610 schedule
22589.5		coast stations, channel 57	QSX 22220.5 kHz
	DCF	*Norddeich R, D*	*scheduled*
	URD	*Leningrad R, RU, URS*	*scheduled*
	WNU	*Slidell R, LA, USA*	*scheduled*
22590.0		coast stations, channel 58	QSX 22221.0 kHz
	GKY 7	Portishead R, G	SITOR-A: 0507-1955 tts CW
	UFL	Vladivostok R, SE, URS	0130+0650+0655+0704 R tts wtsca
	VCS	*CCG Halifax, NS, CAN*	*scheduled*
22590.5		coast stations, channel 59	QSX 22221.5 kHz
	OXZ	*Lyngby R, DNK*	*scheduled*
22591.0		coast stations, channel 60	QSX 22222.0 kHz
	WLO	Mobile R, AL, USA	SITOR-A: 0508-1616 tts CW
	3AC 62	*Monte Carlo R, MCO*	*scheduled*
22591.5		coast stations, channel 61	QSX 22222.5 kHz
	CUL	*Lisbon R, POR*	*scheduled*
	UNM 2	*Klaipeda R, LI, URS*	*scheduled*
22592.0		coast stations, channel 62	QSX 22223.0 kHz
	IAR	*Rome R, I*	*scheduled*
	WLO	Mobile R, AL, USA	SITOR-A: 1343 tts CW
22592.5		coast stations, channel 63	QSX 22223.5 kHz
	UAT	Moscow R, RU, URS	SITOR-A: 1217-1616 R tts wtsca CW
22593.0		coast stations, channel 64	QSX 22224.0 kHz
	ZSC 65	Cape Town R, AFS	SITOR-B: 0930 wx CW
22593.5		coast stations, channel 65	QSX 22224.5 kHz
	UFL	Vladivostok R, SE, URS	0520 R tts wtsca SITOR-B: 1330 R tts wtsca
22594.0		coast stations, channel 66	QSX 22225.0 kHz
	GKQ 7	Portishead R, G	SITOR-A: 0509-1626 tts CW
22594.5		coast stations, channel 67	QSX 22225.5 kHz
22595.0	WORLDWIDE	COAST STATIONS DSC FREQ.	
	OBC 3	Callao R, PRU	CW
22595.5	WORLDWIDE	COAST STATIONS DSC FREQ.	
22596.0		coast stations, ch 2201	SSB QSX 22000.0 kHz
	EHY	Madrid R, E	
	HAR	Budapest R, HNG	
	WOO	Ocean Gate R, NJ, USA	
	XSV	Tianjin R, CHN	
22599.1		coast stations, ch 2202	SSB QSX 22003.1 kHz
	CFH	CF Halifax, NS, CAN	
	HAR	Budapest R, HNG	
	LFN 30	Rogaland R, NOR	
	S3D	Chittagong R, BGD	
	S3E	Khulna R, BGD	
	UDE	Odessa R, UK, URS	
	UIK	Vladivostok R, SE, URS	

22599.1	5OW	Lagos R, NIG		
22602.2		coast stations, ch 2203	SSB	QSX 22006.2 kHz
	EQM	Bushire R, IRN		
	HPP 20	Panama R, PNR		
	LFN 31	Rogaland R, NOR		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
	VIS	Sydney R, NSW, AUS		
22605.3		coast stations, ch 2204	SSB	QSX 22009.3 kHz
	FFL 92	Saint Lys R, F		
	LPL 21	General Pacheco R, ARG		
	OHG 2	Helsinki R, FNL		
	YUR	Rijeka R, YUG		
	ZSC 29	Cape Town R, AFS		
	4XO	Haifa R, ISR		
	9KK 24	Safat R, KWT		
22608.4		coast stations, ch 2205	SSB	QSX 22012.4 kHz
	EQK	Khoramshahr R, IRN		
	PCG 71	Scheveningen R, NLD		
	UFM 3	Nevelsk R, FE, URS		
	UKQ 2	Nakhodka R, SE, URS		
	WOO	Ocean Gate R, NJ, USA		
	7TA 32	El Djaza'ir R, ALG		
22611.5		coast stations, ch 2206	SSB	QSX 22015.5 kHz
	A9M	Hamala R, BHR		
	GKT 76	Portishead R, G		
	OBC 3	Callao R, PRU		
	SPC 93	Gdynia R, POL		
	YUR	Rijeka R, YUG		
	ZSD 42	Durban R, AFS		
	5OW	Lagos R, NIG		
22614.6		coast stations, ch 2207	SSB	QSX 22018.6 kHz
	CUL	Lisbon R, POR		
	DAJ	Norddeich R, D		
	D3E	Luanda R, AGL		
	S3D	Chittagong R, BGD		
	UAT	Moscow R, RU, URS		
	XSG	Shanghai R, CHN		
	4XO	Haifa R, ISR		
22617.7		coast stations, ch 2208	SSB	QSX 22021.7 kHz
	HPP 20	Panama R, PNR		
	JBO	Tokyo R, J		
	LFN 32	Rogaland R, NOR		
	LZW	Varna R, BUL		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
22620.8		coast stations, ch 2209	SSB	QSX 22024.8 kHz
	HLS	Soul R, KOR		
	OSU 74	Oostende R, BEL		
	SPC 94	Gdynia R, POL		
	SVN 7	Athens R, GRC		
	S9M	Sao Tome R, STP		
22623.9		coast stations, ch 2210	SSB	QSX 22027.9 kHz
	OHG 2	Helsinki R, FNL		
	S3E	Khulna R, BGD		
	WOO	Ocean Gate R, NJ, USA		
22627.0		coast stations, ch 2211	SSB	QSX 22031.0 kHz
	COB 34	Flota Atunera F R, CUB		
	COB 36	Flota Cubana F R, CUB		
	IAR	Rome R, I		

22627.0	LFN 33	Rogaland R, NOR		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
22630.1		coast stations, ch 2212	SSB	QSX 22034.1 kHz
	GKU 72	Portishead R, G		
	GYU	RN Gibraltar, GIB		
	HAR	Budapest R, HNG		
	VIP	Perth R, WA, AUS		
	5BA 72	Nicosia R, CYP		
	9VG 70	Singapore R, SNG		
22633.2		coast stations, ch 2213	SSB	QSX 22037.2 kHz
	LFN 34	Rogaland R, NOR		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
	TAM	Mersin R, TUR		
	UFO	Kholmsk R, FE, URS		
	URD	Leningrad R, RU, URS		
	ZLW	Wellington R, NZL		
	5AT	Tripoli R, LBY		
	9GA	Takoradi R, GHA		
22636.3		coast stations, ch 2214	SSB	QSX 22040.3 kHz
	CWF	Punta Carretas R, URG		
	GKU 74	Portishead R, G		
	HEB 52	Berne R, SUI		
	KMI	Dixon R, CA, USA		
	OHG 2	Helsinki R, FNL		
	OSU 77	Oostende R, BEL		
	S3D	Chittagong R, BGD		
	TAM	Mersin R, TUR		
	XSQ	Guangzhou R, CHN		
22639.4		coast stations, ch 2215	SSB	QSX 22043.4 kHz
	FUB	FN Paris, F		
	LFN 35	Rogaland R, NOR		
	OBQ 5	Iquitos R, PRU		
	SPC 91	Gdynia R, POL		
	WOM	Pennsuco R, FL, USA		
	9GX	Tema R, GHA		
22642.5		coast stations, ch 2216	SSB	QSX 22046.5 kHz
	ICB	Genova R, I		
	LFN 36	Rogaland R, NOR		
	OXZ	Lyngby R, DNK		
	WOM	Pennsuco R, FL, USA		
	YVG	La Guayra R, VEN		
	9KK 25	Safat R, KWT		
22645.6		coast stations, ch 2217	SSB	QSX 22049.6 kHz
	DAP	Norddeich R, D		
	OBF 4	Mollendo R, PRU		
	SVN 7	Athens R, GRC		
	S3D	Chittagong R, BGD		
	VPS	Victoria Island R, HKG		
	4XO	Haifa R, ISR		
22648.7		coast stations, ch 2218	SSB	QSX 22052.7 kHz
	FUB	FN Paris, F		
	LFN 37	Rogaland R, NOR		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
	S9M	Sao Tome R, STP		
	UDE	Odessa R, UK, URS		
	VPS	Victoria Island R, HKG		
	5BA 74	Nicosia R, CYP		

22651.8		coast stations, ch 2219	SSB	QSX 22055.8 kHz
	OSU 73	Oostende R, BEL		
	SPO 91	Szczecin R, POL		
	SVN 7	Athens R, GRC		
	S3D	Chittagong R, BGD		
	XSG	Shanghai R, CHN		
	3AC 22	Monte Carlo R, MCO		
22654.9		coast stations, ch 2220	SSB	QSX 22058.9 kHz
	GKU 70	Portishead R, G		
	HEB 72	Berne R, SUI		
	OMC	Bratislava R, TCH		
	OMK	Komarno R, TCH		
	OMP	Prague R, TCH		
	Y5M	Rügen R, D		
	6VA	Dakar R, SEN		
22658.0		coast stations, ch 2221 (WORLDWIDE CALLING FREQ.)	SSB	QSX 22062.0 kHz
22661.1		coast stations, ch 2222	SSB	QSX 22065.1 kHz
	DAH	Norddeich R, D		
	HLS	Soul R, KOR		
	HZG	Dammam R, ARS		
	OHG 2	Helsinki R, FNL		
	WOM	Pennsuco R, FL, USA		
22664.2		coast stations, ch 2223	SSB	QSX 22068.2 kHz
	DAI	Norddeich R, D		
	IAR	Rome R, I		
	KMI	Dixon R, CA, USA		
	S3D	Chittagong R, BGD		
	TAI	Iskenderun R, TUR		
	VIS	Sydney R, NSW, AUS		
	WAH	Saint Thomas R, VIR		
22667.3		coast stations, ch 2224	SSB	QSX 22071.3 kHz
	EHY	Madrid R, E		
	SVN 7	Athens R, GRC		
	Y5M	Rügen R, D		
	3BB	Port Louis Harbour R, MAU		
22670.4		coast stations, ch 2225	SSB	QSX 22074.4 kHz
	CBV	DGTMMM Valpar. R, CHL		
	OSU 71	Oostende R, BEL		
	TFA	Reykjavik R, ISL		
	TUA	Abidjan R, CTI		
	XDA	Mexico City R, MEX		
	XFA	Acapulco R, MEX		
	XFS 5	PEMEX Tuxpan R, MEX		
	XFU 2	PEMEX Veracruz R, MEX		
	7TA 33	El Djaza'ir R, ALG		
22673.5		coast stations, ch 2226	SSB	QSX 22077.5 kHz
	FFL 91	Saint Lys R, F		
	SUH	Alexandria R, EGY		
	S3E	Khulna R, BGD		
	TFA	Reykjavik R, ISL		
	XSQ	Guangzhou R, CHN		
	Y5M	Rügen R, D		
	ZAD	Durres R, ALB		
22676.6		coast stations, ch 2227	SSB	QSX 22080.6 kHz
	ASK	Karachi R, PAK		
	GKV 77	Portishead R, G		
	JBO	Tokyo R, J		
	WLO	Mobile R, AL, USA		
	7TA 34	El Djaza'ir R, ALG		

22679.7		coast stations, ch 2228	SSB	QSX 22083.7 kHz
	KMI	Dixon R, CA, USA		
	LFN 38	Rogaland R, NOR		
	OXZ	Lyngby R, DNK		
	SAG	Goeteborg R, S		
	S3E	Khulna R, BGD		
	UGH 2	Juzno R, FE, URS		
22682.8		coast stations, ch 2229	SSB	QSX 22086.8 kHz
	EHY	Madrid R, E		
	GKV 79	Portishead R, G		
22685.9		coast stations, ch 2230	SSB	QSX 22089.9 kHz
	LFN 39	Rogaland R, NOR		
	SAG	Goeteborg R, S		
	TAH	Istanbul R, TUR		
	Y5M	Rügen R, D		
22689.0		coast stations, ch 2231	SSB	QSX 22093.0 kHz
	CKN	CF Vancouver, BC, CAN		
	FFL 94	Saint Lys R, F		
	HZG	Dammam R, ARS		
	OHG 2	Helsinki R, FNL		
	SVN 7	Athens R, GRC		
	UDN	Novorossiysk R, RU, URS		
	WLO	Mobile R, AL, USA		
	9MG 42	Georgetown R, Pin. I., MLA		
22692.1		coast stations, ch 2232	SSB	QSX 22096.1 kHz
	CLA 76	Habana R, CUB		
	HEB 62	Berne R, SUI		
	PCG 72	Scheveningen R, NLD		
	SPC 92	Gdynia R, POL		
	UFH	Petropavl.-Km. R, FE, URS		
	URB 2	Klaipeda R, LI, URS		
22695.2		coast stations, ch 2233	SSB	QSX 22099.2 kHz
	EQN	Khomeini R, IRN		
	LFN 40	Rogaland R, NOR		
	S3D	Chittagong R, BGD		
22698.3		coast stations, ch 2234	SSB	QSX 22102.3 kHz
	LFN 41	Rogaland R, NOR		
	OXZ	Lyngby R, DNK		
	PKX	Jakarta R, INS		
	SAG	Goeteborg R, S		
	XDA	Mexico City R, MEX		
	XFK	La Paz R, MEX		
	XFS 4	PEMEX Tecolutla R, MEX		
	XFS 5	PEMEX Tuxpan R, MEX		
	5AB	Benghazi R, LBY		
22701.4		coast stations, ch 2235	SSB	QSX 22105.4 kHz
	A7D	Doha R, QAT		
	EQI	Abbas R, IRN		
	FFL 93	Saint Lys R, F		
	SVN 7	Athens R, GRC		
	UDK	Murmansk R, RU, URS		
22704.5		coast stations, ch 2236	SSB	QSX 22108.5 kHz
	JBO	Tokyo R, J		
	KMI	Dixon R, CA, USA		
	LFN 42	Rogaland R, NOR		
	OXZ	Lyngby R, DNK		
	WOO	Ocean Gate R, NJ, USA		
22707.6		coast stations, ch 2237	SSB	QSX 22111.6 kHz
	IAR	Rome R, I		
	LFN 43	Rogaland R, NOR		

22707.6	WLO	Mobile R, AL, USA	
22710.7		coast stations, ch 2238	SSB QSX 22114.7 kHz
	DAK	Norddeich R, D	
	HAR	Budapest R, HNG	
	PPR	Rio de Janeiro R, B	
	UQK	Riga R, LA, URS	
	XFS 4	PEMEX Tecolutla R, MEX	
	XFU 2	PEMEX Veracruz R, MEX	
	7TA 35	El Djaza'ir R, ALG	
22713.8		coast stations, ch 2239	SSB QSX 22117.8 kHz
	LFN 44	Rogaland R, NOR	
	OSU 72	Oostende R, BEL	
	YUR	Rijeka R, YUG	
22716.9		coast stations, ch 2240	SSB QSX 22120.9 kHz
	ASK	Karachi R, PAK	
	CBV	DGTMMM Valpar. R, CHL	
	GKX 70	Portishead R, G	
	JBO	Tokyo R, J	
	LFN 45	Rogaland R, NOR	
	5RS	Toamasina R, MDG	
22742.0	*BAF*	*Beijing Meteo, CHN*	*FAX // 3170.0 kHz*
22763.0		FF Brasilia, B	FEC-A 144 Bd: 1739 msgs to Paris
22771.0	NBA	USN Balboa, PNR	75 Bd: 1504 ry, 1617 msg
22810.0	NBA	USN Balboa, PNR	75 Bd: 1503 ry, 1935 foxes
22843.0	RHA 49	APN Moscow, RU, URS	100 Bd: 1000 + 1100 + 1200 P nx
22850.0	*3MA 36*	*CNA Taipei, TAI*	*FAX // 5117.0 kHz*

22855.0 - 23000.0 FIXED <540>

22860.0	ZRH	SAN Cape Town, AFS	75 Bd: 1407 clg CCM, 1421 + 1537 ry
22865.0	5YE	Nairobi Meteo, KEN	1337 wx
22869.0	*5YE*	*Nairobi Meteo, KEN*	*FAX // 7464.5 kHz $*
22882.7		Egyptian E Bandar Sri Begawan, BRU	SITOR-A: 0153 ATU-A msgs to Cairo
22888.0	'DFZG'	MFA Belgrade, YUG	75 Bd: 1500 ry, msg
22892.1	IAR 76	ANSA Rome, I	CW
22892.5	IAR 76	ANSA Rome, I	0700 E nx
22900.0	GPA 7	Portishead R, G	SITOR-A: 0640-1730 tts CW
22904.5		German E Dakar, SEN	ARQ-E 96 Bd: 0954 clg DMK
		German E Lagos, NIG	ARQ-E 96 Bd: 1505 clg DMK
		German E Tokyo, J	ARQ-E 96 Bd: 0738 msg to DMK
22905.5	DMK	MFA Bonn, D	ARQ-E 96 Bd: 0820 tfc to Singapore, 1310 tfc to Brasilia, 1348 tfc to Conakry CW
22911.0	'RFVI'	FF Le Port, REU	ARQ-M2 96 Bd: A: 1337 operational msg to 'RFHI' [VII]
22913.0	9VF 236	PIAB Singapore, SNG	FEC-A 96 Bd: 0900 + 1000 + 1100 G nx
22915.0	'RFFA'	MOD Paris, F	ARQ-M2 96 Bd: A: 1233 msg + encrypted tfc after "KKKK..." to 'RFVI' [IRE] B: 1230 msg + encrypted tfc after "KKKK..." to 'RFVI'
22917.0		UNID station (1090)	ARQ-E 192 Bd: 1334 encrypted tfc

22930.0	**SAM**	**MFA Stockholm, S**	**SWED-ARQ: 1103 tfc**
22946.0	**MKD**	**RAF Akrotiri, CYP**	**VFT: 0741-1713 ryi COMB**
22955.0	**ISX 22**	**ANSA Rome, I**	**0900 + 1100 F nx, 1200 + 1500 E nx, 1600 F nx**
22964.5	**HBD 20**	**MFA Berne, SUI**	**SITOR-A: 0806 msg to KNY 27**
	KNY 27	**Swiss E Wash., DC, USA**	**SITOR-A: 0806 tfc to HBD 20**
22969.0	**HBD 20**	**MFA Berne, SUI**	**SITOR-A: 1256 tfc to HBD 41, 1505 tfc to HBD 31, 1606 tfc to HBD 41**
	HBD 31	**Swiss E Buenos Aires, ARG**	**SITOR-A: 1507 + 1625 msg to HBD 20**
	HBD 41	**Swiss E Pretoria, AFS**	**SITOR-A: 1256 + 1605 msg (5lgs) to HBD 20**
22973.0	**GPA 3**	**Portishead R, G**	**SITOR-A: 0648-1828 tts CW**
22975.5	**HBD 20**	**MFA Berne, SUI**	**SITOR-A: 1250 tfc to HBD 31**
	HBD 31	**Swiss E Buenos Aires, ARG**	**SITOR-A: 1251 + 1520 msg to HBD 20**
	HBD 66	**Swiss E Ott., ONT, CAN**	**SITOR-A: 1600 msgs to HBD 20**
22990.0	AFE 83	USAF Wideawake, ASC	SSB
	SDK 96	**ST Stockholm, S**	**SITOR-A: 0742-2048 tts**

23000.0 - 23200.0 FIXED + Mobile except aeronautical mobile (R) <540>

23005.7		**MFA Athens, GRC**	**SITOR-A: 1446 encrypted msg + msg, Greek final tfc, s. off**
23006.7		**Egyptian E Kampala, UGA**	**SITOR-A: 1446 tfc to Cairo** **SITOR-B: 1443 ATU-A msg to Cairo**
23010.0	**MKK**	**RAF London, G**	**VFT: 1422 ryi**
	NPN	*USN Apra Harbour, GUM*	*FAX // 5262.0 kHz $*
	PWZ	**BN Rio de Janeiro, B**	**75 Bd: 1526 ry**
	RCC 76	Moscow Meteo, RU, URS	*(hx 7670.0 kHz)*
23020.0		Pakistan E London, G	SSB
23021.7		**Pakistan E London, G**	**SITOR-A: 1442 tfc to Islamabad**
23023.7		**Greek E Kinshasa, ZAI**	**SITOR-A: 0913 Greek msg + tfc to Athens**
		MFA Athens, GRC	**SITOR-A: 0913 tfc to Kinshasa**
23030.0	**GYA**	**RN London, G**	**75 Bd: 1041-1532 test**
23035.0	AFE 70	USAF Cape Can., FL, USA	SSB
	AFE 83	USAF Wideawake, ASC	SSB
	AFE 86	USAF Cedar Grove, ATG	SSB
23072.0	HMF 49	KCNA Pyongyang, KRE	(hx 11536.0 kHz)
23078.9	**SAM**	**MFA Stockholm, S**	**SWED-ARQ: 1423 final msg to SAM 34, s. off**
	SAM 34	**Swedish E Harare, ZWE**	**SWED-ARQ: 1423 tfc to SAM, s. off**
23097.0	**'DFZG'**	**MFA Belgrade, YUG**	**75 Bd: 1837 encrypted msg after "ZPZPZP..."**
23113.0	**'PHWR'**	**USAF Hickam AFB, Honolulu, HWA**	**75 Bd: 0041 + 0523 + 0730 + 0737 + 0858 wx**
23116.7		**MFA Cairo, EGY**	**SITOR-A: 1051 ATU-A msg to Conakry**
23117.0	*'PHWR'*	*USAF H. AFB, H., HWA*	*FAX // 16182.0 kHz $*

23200.0 - 23350.0 AERONAUTICAL FIXED + AERONAUTICAL MOBILE (OR)

23210.0	SHN 33	Stockholm Air, S	SSB
23220.0	MQP	RAF Upavon, G	SSB
23234.2	'RFFA'	MOD Paris, F	ARQ-M2 200 Bd: B: 1343 operational msg to 'RFQP'
23254.0	FDE 5	FAF Evreux, F	SSB
23264.0	HGX 39	Hungarian E Delhi, IND	DUP-ARQ: 1053 msg (5fgs) to HGX 21
23280.0	RGH 77	Arkhangelsk M., RU, URS	(hx 7760.0 kHz)
23285.0	HEE 91	Berne Air, SUI	SSB
23305.2	'RFQP'	FF Jibuti, DJI	ARQ-M2 200 Bd: A: 1430+1510 "controle de voie" to 'RFFA' [QPB]
23331.5	*KVM 70*	*Honolulu Meteo, HWA*	*FAX // 9982.5 kHz $*
23340.3	CLP 1	MFA Habana, CUB	1933 msg (5fgs) + msg to CLP 18, s. off

23350.0 - 24000.0 FIXED + MOBILE except aeronautical mobile <541 542>

23351.5	NWC	USN Exmouth, WA, AUS	COMB
23355.0		MFA Lagos, NIG	FEC-A 96 Bd: 1540 tfc
		Nigerian E Jakarta, INS	FEC-A 96 Bd: 1720 tfc to Lagos
		Nigerian E Kinshasa, ZAI	FEC-A 96 Bd: 1543 msg (5lgs) + tfc to Lagos
23360.2	HGX 50	Hungar. E Jakarta, INS	0710 clg HGX 21
23370.0	HZN 50	Jeddah Meteo, ARS	100 Bd: 0610-1748 wx
23380.0	MKD	RAF Akrotiri, CYP	VFT: 1043-1840 ryi COMB
23391.5	LOL	AN Buenos Aires, ARG	75 Bd: 1550 clg NBA, 1930 clg OBC
23405.0	SOY 240B	PAP Warsaw, POL	SITOR-B: 1400 Polish nx
23408.0	SOY 240B	PAP Warsaw, POL	CW
23417.0	'BRTH'	French E Beirut, LBN	FEC-A 192 Bd: 0800 msgs
23425.0	KKN 44	USE Monrovia, LBR	CW
23431.5	HDN	EN Quito, EQA	75 Bd: 1251 ry
23505.7	SAM	MFA Stockholm, S	SWED-ARQ: 0714+1329 tfc
23522.9	*JMH 6*	*Tokyo Meteo, J*	*FAX // 3622.5 kHz $*
23527.9	SAM 83	Swedish E Santiago, CHL	75 Bd: 1645 msgs to SAM
23545.0	DFX 54	PIAB Bonn, D	FEC-A 96 Bd: 0700+0800+0900+1000 G nx
23548.0	SAM 55	Swedish E Bangkok, THA	SWED-ARQ: 0731+0954 msgs to SAM
23586.0	SAM	MFA Stockholm, S	SWED-ARQ: 0848 tfc to SAM 75
	SAM 75	Swedish E Nairobi, KEN	SWED-ARQ: 0848 msgs to SAM
23615.0		UNID station (1190)	ARQ-E 192 Bd: 0837 encrypted tfc
23642.0	KWS 78	USE Athens, GRC	CW
23645.0	VMA	RAAF Melb., VIC, AUS	VFT: 75 Bd: 1014 foxes
23692.6	DFX 69	PIAB Bonn, D	FEC-A 96 Bd: 1200+1300 G nx
23697.6	DFX 69H6	PIAB Bonn, D	FEC-A 96 Bd: 1400-1800 G nx
23710.0		SAF Moscow, RU, URS	SSB
23713.5	'K'	Bcn. Khabarovsk, SE, URS	CW (hx 7904.5 kHz)
23715.0	'RFLI'	FF Fort de France, MRT	ARQ-M2 96 Bd: B: 1657+1841 "controle de voie" [LIH]
23720.0		Bintulu, Sarawak, MLA	SSB
23750.0	OEY 32	AA Salzburg, AUT	SSB
	OEY 532	Austr. UNFICYP Larn., CYP	SSB
23865.0	*9VF 235*	*KYODO Singapore, SNG*	*FAX // 16230.0 kHz*

23906.0	OMZ	MFA Prague, TCH	CW
23972.0	JMG 6	Tokyo Meteo, J	24 h ry or wx
23975.0	KKN 50	MFA Washington, DC, USA	CW
23997.5	GHH	Jamestown Meteo, SHN	1000 + 1400 ry, wx

24000.0 - 24890.0 FIXED + LAND MOBILE <542>

24006.7		MFA Islamabad, PAK	SITOR-A: 0745 msg (E nx), 1148 + 1335 tfc
24008.0	SAM	MFA Stockholm, S	SWED-ARQ: 1155 tfc to SAM 67
	SAM 67	Swedish E Colombo, SLK	SWED-ARQ: 1155 msg + tfc to SAM
24060.0		MFA Lagos, NIG	FEC-A 96 Bd: 1000 + 1100 + 1600 msg (E press review)
24102.0	'DFZG'	MFA Belgrade, YUG	75 Bd: 0845 + 1751 msgs
24310.0	'RFGW'	MFA Paris, F	FEC-A 144 Bd: 0612 tfc
24432.5	PWZ	BN Rio de Janeiro, B	1312 ry, clg 'RPFN'
24457.8	FJY 3	DTRE Dumont d'Urv., ADL	VFT: ARQ-E 96 Bd: 0830 ry, to Paris
24458.8	FJY 3	DTRE Dumont d'Urv., ADL	// 24457.8 kHz
24620.0	MKK	RAF London, G	VFT: 1230 ryi
24711.7	'RFTJFA'	FF Praia, Santiago, CPV	ARQ-E3 96 Bd: 1325 "controle de cle" to 'RFFA' [AFL]
24790.0	ISX 24	ANSA Rome, I	0800 E nx, 0900 F nx, 1000 E nx, 1100 F nx, 1200 + 1500 E nx, 1600 F nx
24795.5	CLP ..	Cuban E Harare, ZWE	100 Bd: 1513 msg + encrypted msg after "ZZZ..." to CLP 1
24827.0	KWL 90	USE Manila, PHL	CW
24850.0	'RFLI'	FF Fort de France, MRT	ARQ-M2 96 Bd: A: 1336 + 1350 + 1418 msg
24870.0	'RFHJ'	FF Papeete, Tahiti, OCE	ARQ-M2 96 Bd: A: 0839 "controle de voie", 2352 encrypted msg after "KKKK..." [HJL]

24890.0 - 24990.0 AMATEUR + AMATEUR-SATELLITE <510 542 543>

24922.3	'RETENX'	Burgos, E	1338 msgs to 'RETEMZA'
24930.0		UNID station (290)	ARQ-E 192 Bd: 1518 encrypted tfc

24990.0 - 25005.0 STANDARD FREQUENCY AND TIME SIGNAL

25005.0 - 25010.0 STANDARD FREQUENCY AND TIME SIGNAL + Space Research

25010.0 - 25070.0 FIXED + MOBILE except aeronautical mobile

25012.0	FDY	FAF Orleans, F	1505 + 1629 ry
25012.5	GYA	RN London, G	75 Bd: 1143 + 1202 test
25025.0	OBY 2	Paita R, PRU	CW
25035.0	SHN 25	Stockholm Air, S	SSB
25045.0	OBC 3	Callao R, PRU	CW
25052.0	OMP 81	Prague R, TCH	CW

25065.0	JFA	Matsudo F R, J	CW
	OBF 4	Mollendo R, PRU	CW
	OFJ 25	Helsinki R, FNL	CW
25069.0	Y5M	Rügen R, D	CW

25070.0 - 25210.0 MARITIME MOBILE <544>

25071.0		ship stns. calling, ch A	CW
25073.0		ship stns. calling, ch C	CW
25075.0		ship stns. calling, ch B	CW
25075.8		ship stations	QSX 25222.5 kHz (WLO)
25076.3		ship stations, non-paired	
25076.8		ship stations, non-paired	
25077.3		ship stations, non-paired	
25077.8		ship stations, non-paired	
25078.3		ship stations, non-paired	
25078.8		ship stations, non-paired	
25079.3		ship stations, non-paired	
		ship stations	QSX 26163.3 kHz (LFZ 2)
25079.8		ship stations, non-paired	
25080.3		ship stations, non-paired	
25080.8		ship stations, non-paired	
25081.3		ship stations, non-paired	
25081.8		ship stations, non-paired	
25082.3		ship stations, non-paired	
25082.8		ship stations, non-paired	
25083.3		ship stations, non-paired	
25083.8		ship stations, non-paired	
25084.3		ship stations, non-paired	
25084.8		ship stations, non-paired	
25085.3		ship stations, non-paired	
25085.8		ship stations, non-paired	
		ship stations	QSX 25380.0 kHz (NMF)
25086.3		ship stations, non-paired	
25086.8		ship stations, non-paired	
25087.3		ship stations, non-paired	
25087.8		ship stations, non-paired	
25088.3		ship stations, non-paired	
25088.8		ship stations, non-paired	
		ship stations	QSX 26172.8 kHz (LFZ 3)
25089.3		ship stations, non-paired	
25089.8		ship stations, non-paired	
25092.5		ship stations	QSX 26158.0 kHz (UJY)
25110.0	OBQ 5	Iquitos R, PRU	CW
25127.0	UJY	Kaliningrad R, RU, URS	1400 + 1434 + 1550 R tts wtsca
25130.0	ROT	SN Moscow, RU, URS	CW
25130.5	LPD 34	General Pacheco R, ARG	CW
25133.0	URB 2	Klaipeda R, LI, URS	1011 + 1434 + 1554 R tts wtsca CW
25135.0	OST 8	Oostende R, BEL	CW
25143.0	OMP 82	Prague R, TCH	CW
25160.0	LSA	Boca R, ARG	CW
		VoA Kavalla, GRC	VFT: 75 Bd: 1332 + 1408 clg + msgs to Greenville
25175.0	VHI 8	RAN Darwin, NT, AUS	CW
25196.0	DAM	Norddeich R, D	CW
25197.0	LSA	Boca R, ARG	CW

25210.0 - 25550.0 FIXED + MOBILE except aeronautical mobile

25215.0	**UMV**	**Murmansk R, RU, URS**	**(sp 25255.0 kHz)**
25222.5	**WLO**	**Mobile R, AL, USA**	**SITOR-A: 1145 tts; QSX 25075.8 kHz** CW
25223.0	**HBD 20**	**MFA Berne, SUI**	**SITOR-A: 1230+1500 msg (F/G nx)**
25228.5	**HBD 20**	**MFA Berne, SUI**	**SITOR-A: 1440 tfc to HBD 68**
	HBD 68	**Swiss E Cd. de Gtm., GTM**	**SITOR-A: 1440 msg to HBD 20**
25255.0	**UMV**	**Murmansk R, RU, URS**	**0817-1557 R tts wtsca** CW
25262.0	OXZ 95	Lyngby R, DNK	CW
25271.5	**ISX 25**	**ANSA Rome, I**	**0900 F nx, 1000 E nx, 1100 F nx**
25277.0	ZSC 41	Cape Town R, AFS	CW
25295.0	**UMV**	**Murmansk R, RU, URS**	**(sp 25255.0 kHz)**
25308.0	LFR	Rogaland R, NOR	CW
	Y5M	Rügen R, D	CW
25315.0	**'RPFN'**	**PN Lisbon, POR**	**1258 clg + msgs to PWZ, 1315+1324 clg PWZ**
25320.6	**DFZ 32**	**PIAB Bonn, D**	**FEC-A 96 Bd: 1100+1200+1300+1400 G nx**
25329.0	FUM	FN Papeete, Tahiti, OCE	CW (hx 12664.5 kHz)
25348.0	WLO	Mobile R, AL, USA	CW
25355.0	AQP 13	PN Karachi, PAK	CW
25377.0	**UQK**	**Riga R, LA, URS**	**(hx 12688.5 kHz)** CW (hx 12688.5 kHz)
25380.0	***NMF***	***USCG Boston, MA, USA***	***scheduled; QSX 25085.8 kHz***
25382.5	LFZ	Rogaland R, NOR	CW
25390.1	**GKE 8**	**Portishead R, G**	**SITOR-A: 1017-1725 tts** **SITOR-B: 1500+1900 tfc list** CW
25401.0	SVA 8	Athens R, GRC	CW
25415.5	SAB 25	Goeteborg R, S	CW
25419.5	**DMK**	**MFA Bonn, D**	**ARQ-E 96 Bd: 1606 msgs to Delhi** CW
25437.0	**OXZ**	**Lyngby R, DNK**	**SITOR-A: 0722-1730 tts** **SITOR-B: 0930 wx, 1630 Danish nx, 1730 tfc list** CW
25440.5	OXZ	Lyngby R, DNK	SSB
25444.0	OXZ	Lyngby R, DNK	SSB
25447.0	**GYA**	**RN London, G**	**75 Bd: 1046+1510 test**
25461.0	SAG 25	Goeteborg R, S	CW
25470.0	URL	Sevastopol' R, UK, URS	CW (hx 12735.0 kHz)
25478.0	*NPN*	*USN Apra Harbour, GUM*	*FAX // 5258.0 kHz $*
25500.0	HEO 55	Berne Air, SUI	SSB
25530.0	**MKD**	**RAF Akrotiri, CYP**	**VFT: 1604 ryi** COMB
25535.0	SVD 8	Athens R, GRC	CW

25550.0 - 25670.0 RADIO ASTRONOMY <545>

25590.0	NAR	USN Key West, FL, USA	CW

25670.0 - 26100.0 BROADCASTING

25775.0	EAD 44	Madrid R, E	CW (hx 12887.5 kHz)
25850.0	UQA 4	Murmansk R, RU, URS	CW (hx 12925.0 kHz)
25950.0		VoA Greenvl. fdr., NC, USA	SSB
25986.0	URL	Sevastopol' R, UK, URS	CW (hx 12993.0 kHz)

26100.0 - 26175.0 MARITIME MOBILE <520B 544>

26100.5	**WORLDWIDE**	**NBDPT MSI FREQUENCY**	
26103.0	4XO	Haifa R, ISR	CW (hx 13051.5 kHz)
26108.0	DAN	Norddeich R, D	CW
26124.0	CLA 32	Habana R, CUB	CW (hx 13062.0 kHz)
26130.0	**VMA**	**RAAF Melb., VIC, AUS**	**VFT: 0733 foxes**
26135.1	SAG	Goeteborg R, S	SSB QSX 25044.6 kHz
26144.4	SAG	Goeteborg R, S	SSB QSX 25053.9 kHz
26150.6	SAG	Goeteborg R, S	SSB QSX 25060.1 kHz
26158.0	**UJY**	**Kaliningrad R, RU, URS**	**1119 R ry wtsca; QSX 25092.5 kHz**
26163.3	**LFZ 2**	**Rogaland R, NOR**	**SITOR-A: 0823 tts; QSX 25079.3 kHz**
26172.8	***LFZ 3***	***Rogaland R, NOR***	***scheduled; QSX 25088.8 kHz***

26175.0 - 27500.0 FIXED + MOBILE except aeronautical mobile <546>

26227.5	DAF	Norddeich R, D	CW
26241.7	**'RFVI'**	**FF Le Port, REU**	**ARQ-M2 96 Bd: B: 0710-2106 "controle de voie" or msgs to 'RFFA' [DNI]**
26303.5		**Vitoria, E**	**1325 msgs to Pamplona**
26340.0	DAL	Norddeich R, D	CW
26440.0	**'RFTJ'**	**FF Dakar, SEN**	**ARQ-M2 96 Bd: A: 0718 msg to 'RFFA [SGI]**
26441.5	**DFZ 64**	**PIAB Bonn, D**	**FEC-A 96 Bd: 1100 + 1200 + 1300 G nx**
26455.0	**Y5M**	**Rügen R, D**	**CW**
26820.0	**FJY 2**	**DTRE Port-aux-Francais, KER**	**VFT: ARQ-M2 96 Bd: A: 0831 to Paris**
27017.0	OST	Oostende R, BEL	CW
27440.0	AQP	PN Karachi, PAK	CW

27500.0 - 28000.0 FIXED + METEOROLOGICAL AIDS + MOBILE

27560.0	**HMF 35**	**KCNA Pyongyang, KRE**	**(hx 13780.0 kHz)**
27999.3	**HBC 88**	**ICRC Geneva, SUI**	**SITOR-A: 1118 tfc**
	5XR 88	**ICRC Kampala, UGA**	**SITOR-A: 1237 + 1426 msgs to HBC 88**

28000.0 - 29700.0 AMATEUR + AMATEUR-SATELLITE

28164.0	**ZAO 3**	**PTT Tirana, ALB**	**(hx 9388.0 kHz)**
28271.4		**Italian E Maputo, MOZ**	**SITOR-A: 0720-1145 tfc + msgs to Rome**
28290.0	**ZAT**	**ATA Tirana, ALB**	**(hx 9430.0 kHz)**
29020.0	**RIC 75**	**TASS Moscow, RU, URS**	**(hx 14510.0 kHz)**
29128.0	5BC 68	Nicosia R, CYP	SSB (hx 14564.0 kHz)

29400.0	**REB 24**	**TASS Moscow, RU, URS**	**(hx 14700.0 kHz)**

29700.0 - 30000.0 **FIXED + MOBILE**

29700.0	ROW 26	R Moscow feeder, RU, URS	ISB (hx 14850.0 kHz)
29702.5	**C8Z 650**	**ICRC Maputo, MOZ**	**SITOR-A: 1035 msg + final tfc to HBC 88, s. off; 1500 msgs to HBC 88**
	HBC 88	**ICRC Geneva, SUI**	**SITOR-A: 1036 + 1500 tfc to C8Z 650 ☺**

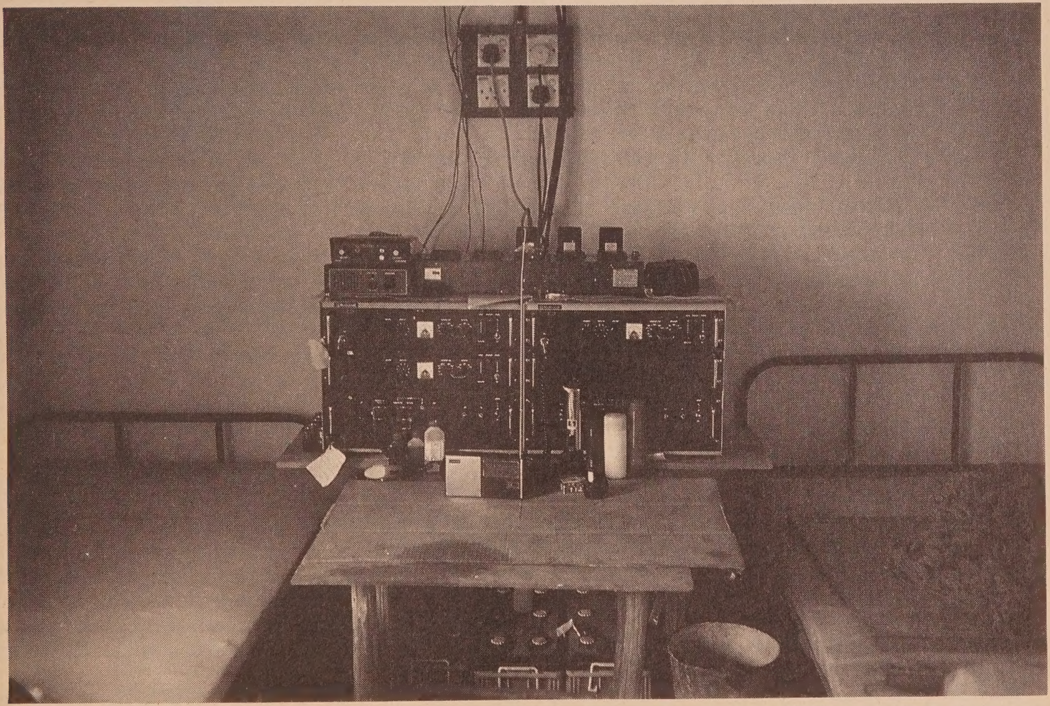

Figure 2 - Microwave equipment of the police radio station near the top of Gunung Raya (see page 318), the highest mountain of wonderful Langkawi Island located near the Thai border off the west coast of Peninsular Malaysia. The station relays communication between Alor Setar, the capital city of the state of Kedah, and Kuah (the "capital city" of Pulau Langkawi) and Padang Matsirat (the international airport just north of the Pelangi Beach Resort, one of the locations during our 1990 monitoring mission in Malaysia and Singapore - this hotel lodged the participants of the 1989 Commonwealth Conference in Kuala Lumpur).

3.4 Footnotes

RR 444 Administrations authorizing the use of frequencies below 9 kHz shall ensure that no harmful interference is caused thereby to the services to which the bands above 9 kHz are allocated (see RR 1816).

RR 445 Administrations conducting scientific research using frequencies below 9 kHz are urged to advise other administrations that may be concerned in order that such research may be afforded all practicable protection from harmful interference.

RR 480 In Region 2, the use of the band 1605 - 1705 kHz by stations of the broadcasting service shall be subject to a plan to be established by a regional administrative radio conference (see Recommendation 504).

RR 480A In the band 1605 - 1705 kHz, in cases where a broadcasting station of Region 2 is concerned, the service area of the maritime mobile stations in Region 1 shall be limited to that provided by ground-wave propagation.

RR 481 In Region 2, until the dates decided by a regional administrative radio conference referred to in RR 480, the band 1605 - 1705 kHz is allocated to the fixed, mobile and aeronautical radionavigation services on a primary basis and to the radiolocation service on a secondary basis (see Recommendation 504).

RR 482 Additional allocation: in AUS, INS, NZL, PHL, SLK, SNG and THA, the band 1606.5 - - 1705 kHz is also allocated to the broadcasting service on a secondary basis.

RR 483 Different category of service: in BUL, HNG, MNG, NIG, POL, TCD, TCH and URS, the allocation of the bands 1606.5 - 1625 kHz, 1635 - 1800 kHz and 2107 - 2160 kHz to the fixed and land mobile services is on a primary basis (see RR 425).

RR 484 Some countries of Region 1 use radiodetermination systems in the bands 1606.5 - 1625 kHz, 1635 - 1800 kHz, 1850 - 2160 kHz, 2194 - 2300 kHz, 2502 - 2850 kHz and 3500 - 3800 kHz. The establishment and operation of such systems are subject to agreement, obtained under the procedure set forth in Article 14. The radiated mean power of these stations shall not exceed 50W.

RR 485 Additional allocation: in AGL, BUL, HNG, MNG, NIG, POL, TCD, TCH and URS, the bands 1625 - 1635 kHz, 1800 - 1810 kHz and 2160 - 2170 kHz are also allocated to the fixed and land mobile services on a primary basis subject to agreement obtained under the procedure set forth in Article 14.

RR 486 In Region 1, in the bands 1625 - 1635 kHz, 1800 - 1810 kHz and 2160 - 2170 kHz (except in the countries listed in RR 485 and those listed in RR 499 for the band 2160 - 2170 kHz), existing stations in the fixed and mobile, except aeronautical mobile, services (and stations of the aeronautical mobile (OR) service in the band 2160 - 2170 kHz) may continue to operate on a primary basis until satisfactory replacement assignments have been found and implemented in accordance with Resolution 38.

RR 487 In Region 1, the establishment and operation of stations of the radiolocation service in the bands 1625 - 1635 kHz, 1800 - 1810 kHz and 2160 - 2170 kHz shall be subject to agreement obtained under the procedure set forth in Article 14 (see also RR 486). The radiated mean power of radiolocation stations shall not exceed 50 W. Pulse systems are prohibited.

RR 488 In D, DNK, FNL, G, HNG, IRL, ISR, JOR, MLT, NOR, POL, S, TCH and URS, administrations may allocate up to 200 kHz to their amateur service in the bands 1715 - 1800 kHz and 1850 - 2000 kHz. However, when allocating the bands within this range to their amateur service, administrations shall, after prior consultation with administrations of neighbouring countries, take such steps as may be necessary to prevent harmful interference from their amateur service to the fixed and mobile services of other countries. The mean power of any amateur station shall not exceed 10 W.

RR 489 In Region 3, the Loran system operates either on 1850 kHz or 1950 kHz, the bands occupied being 1825 - 1875 kHz and 1925 - 1975 kHz respectively. Other services to which the band 1800 - 2000 kHz is allocated may use any frequency therein on condition that no harmful interference is caused to the Loran system operating on 1850 kHz or 1950 kHz.

RR 490 Alternative allocation: in AGL, AUT, BEL, BUL, CME, COG, D, DNK, EGY, E, ETH, F, GRC, I, LBN, LUX, MWI, NLD, POR, SYR, SOM, TZA, TUN, TUR and URS, the band 1810 - 1830 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.

RR 491 Additional allocation: in ARS, IRQ, ISR, LBY, POL, ROU, TCD, TCH, TGO and YUG, the band 1810 - 1830 kHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.

RR 492 In Region 1, the use of the band 1810 - 1850 kHz by the amateur service is subject to the condition that satisfactory replacement assignments have been found and implemented in accordance with Resolution 38, for frequencies to all existing stations of the fixed and mobile, except aeronautical mobile, services operating in this band (except for the stations of the countries listed in RRs 490, 491 and 493). On completion of satisfactory transfer, the authorization to use the band 1810 - 1850 kHz by the amateur service in countries situated totally or partially north of 40° N shall be given only after consultation with the countries mentioned in RRs 490 and 491 to define the necessary steps to be taken to prevent harmful interference between amateur stations and stations of other services operating in accordance with RRs 490 and 491.

RR 493 Alternative allocation: in BDI and LSO, the band 1810 - 1850 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.

RR 494 Alternative allocation: in ARG, BOL, CHL, MEX, PRG, PRU, URG and VEN, the band 1850 - 2000 kHz is allocated to the fixed, mobile except aeronautical mobile, radiolocation and radionavigation services on a primary basis.

RR 495 In Region 1, in making assignments to stations in the fixed and mobile services in the bands 1850 - 2045 kHz, 2194 - 2498 kHz, 2502 - 2625 kHz and 2650 - 2850 kHz, administrations should bear in mind the special requirements of the maritime mobile service.

RR 496 In Region 1, the use of the band 2025 - 2045 kHz by the meteorological aids service is limited to oceanographic buoy stations.

RR 497 In Region 2, except in GRL, coast stations and ship stations using radiotelephony in the band 2065 - 2107 kHz shall be limited to class R3E or J3E emissions and to a peak envelope power not exceeding 1 kW. Preferably, the following carrier frequencies should be used: 2065.0 kHz, 2079.0 kHz, 2082.5 kHz, 2086.0 kHz, 2093.0 kHz, 2096.5 kHz, 2100.0 kHz and 2103.5 kHz. In ARG, B and URG, the carrier frequencies 2068.5 kHz and 2075.5 kHz are also used for this purpose, while the frequencies within the band 2072 - 2075.5 kHz are used as provided in RR 4323BD.

RR 498 In Regions 2 and 3, provided no harmful interference is caused to the maritime mobile service, the frequencies between 2065 kHz and 2107 kHz may be used by stations of the fixed service communicating only within national borders and whose mean power does not exceed 50 W. In notifying the frequencies, the attention of the International Frequency Registration Board should be drawn to these provisions.

RR 499 Additional allocation: in ARS, BOT, ETH, IRQ, LSO, LBY, MWI, SOM, SWZ and ZMB, the band 2160 - 2170 kHz is also allocated to the fixed and mobile, except aeronautical mobile (R), services on a primary basis. The mean power of stations in these services shall not exceed 50 W.

RR 500 The carrier frequency 2182 kHz is an international distress and calling frequency for radiotelephony. The conditions for the use of the band 2173.5 - 2190.5 kHz are prescribed in Articles 37, 38, N38 and 60.

RR 500A The frequencies 2187.5 kHz, 4207.5 kHz, 6312 kHz, 8414.5 kHz, 12577 kHz and 16804.5 kHz are international distress frequencies for digital selective calling. The conditions for the use of these frequencies are prescribed in Article N38.

RR 500B The frequencies 2174.5 kHz, 4177.5 kHz, 6268 kHz, 8376.5 kHz, 12520 kHz and 16695 kHz are international distress frequencies for narrow-band direct-printing telegraphy. The conditions for the use of these frequencies are prescribed in Article N38.

RR 501 The carrier frequencies 2182 kHz, 3023 kHz, 5680 kHz, 8364 kHz and the frequencies 121.5 MHz, 156.8 MHz and 243 MHz may also be used, in accordance with the procedures in force for terrestrial radiocommunication services, for search and rescue operations concerning manned space vehicles. The conditions for the use of the frequencies are prescribed in Articles 38 and N38. The same applies to the frequencies 10003 kHz, 14993 kHz and 19993 kHz, but in each of these cases emissions must be confined in a band of plus minus 3 kHz about the frequency.

RR 502	Alternative allocation: in BEL, CYP, DNK, E, F, G, GRC, ISL, I, MLT, NOR, NLD, POR, S, SLK, SNG, TUR and YUG, the band 2194 - 2300 kHz is allocated to the maritime mobile service on a primary basis and to the fixed and land mobile services on a permitted basis.
RR 503	For the conditions for the use of the bands 2300 - 2495 kHz (2498 kHz in Region 1), 3200 - 3400 kHz, 4750 - 4995 kHz and 5005 - 5060 kHz by the broadcasting service, see RRs 406 to 411 and 2666 to 2673.
RR 504	Alternative allocation: in BEL, CYP, DNK, E, F, G, GRC, IRQ, I, MLT, NOR, NLD, POR, S, TUR and YUG, the band 2502 - 2625 kHz is allocated to the maritime mobile service on a primary basis and to the fixed and land mobile services on a permitted basis.
RR 505	The carrier (reference) frequencies 3023 kHz and 5680 kHz may also be used, in accordance with Articles 38 and N38, by stations of the maritime mobile service engaged in coordinated search and rescue operations.
RR 506	Administrations are urged to authorize the use of the band 3155 - 3195 kHz to provide a common worldwide channel for low power wireless hearing aids. Additional channels for these devices may also be assigned by administrations in the bands between 3155 kHz and 3400 kHz to suit local needs. It should be noted that frequencies in the range 3000 kHz to 4000 kHz are suitable for hearing aid devices which are designed to operate over short distances within the induction field.
RR 507	Alternative allocation: in BEL, CME, CYP, CTI, DNK, E, EGY, F, G, GRC, I, ISL, LBR, MLT, NOR, NLD, S, SLK, SNG, TGO, TUR and YUG, the band 3155 - 3200 kHz is allocated to the maritime mobile service on a primary basis and to the fixed and land mobile services on a permitted basis.
RR 508	Additional allocation: in AUS, B, CAN, J, MEX, NZL, PRU, URG and USA, the band 3230 - 3400 kHz is also allocated to the radiolocation service on a secondary basis.
RR 509	Additional allocation: in HND, MEX, PRU and VEN, the band 3500 - 3750 kHz is also allocated to the fixed and mobile services on a primary basis.
RR 510	For the use of the bands allocated to the amateur service at 3.5 MHz, 7.0 MHz, 10.1 MHz, 14.0 MHz, 18.068 MHz, 21.0 MHz, 24.89 MHz and 144 MHz in the event of natural disasters, see Resolution 640.
RR 511	Additional allocation: in B, the band 3700 - 4000 kHz is also allocated to the radiolocation service on a primary basis.
RR 512	Alternative allocation: in ARG, BOL, CHL, EQA, PRG, PRU and URG, the band 3750 - 4000 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.
RR 513	Alternative allocation: in AFS, BOT, LSO, MWI, MOZ, NMB, SWZ, ZMB and ZWE, the band 3900 - 3950 kHz is allocated to the broadcasting service on a primary basis. The use of this band by the broadcasting service is subject to agreement obtained under the procedure set forth in Article 14 with neighbouring countries having services operating in accordance with the Table.
RR 514	Additional allocation: in CAN, the band 3950 - 4000 kHz is also allocated to the broadcasting service on a primary basis. The power of broadcasting stations operating in this band shall not exceed that necessary for a national service within the frontiers of this country and shall not cause harmful interference to other services operating in accordance with the Table.
RR 515	Additional allocation: in GRL, the band 3950 - 4000 kHz is also allocated to the broadcasting service on a primary basis. The power of the broadcasting stations operating in this band shall not exceed that necessary for a national service and shall in no case exceed 5 kW.
RR 516	In Region 3, the stations of those services to which the band 3995 - 4005 kHz is allocated may transmit standard frequency and time signals.
RR 517	The use of the band 4000 - 4063 kHz by the maritime mobile service is limited to ship stations using radiotelephony (see RR 4374 and Appendix 16).
RR 518	In AFG, AUS, BOT, CHN, IND, SWZ, TCD and URS, in the bands 4063 - 4123 kHz, 4130 - 4133 kHz and 4408 - 4438 kHz, stations of limited power in the fixed service which are situated at least 600 km from the coast may operate on condition, that harmful interference is not caused to the maritime mobile service.

RR 519	On condition that harmful interference is not caused to the maritime mobile service, the frequencies in the bands 4063 - 4123 kHz and 4130 - 4438 kHz may be used exceptionally by stations in the fixed service communicating only within the boundary of the country in which they are located with a mean power not exceeding 50 W.
RR 520	The conditions for the use of the carrier frequencies 4125 kHz and 6215.5 kHz are prescribed in Articles 37, 38, N38 and 60.
RR 520A	The frequency 4209.5 kHz is used exclusively for the transmission by coast stations of meteorological and navigational warnings and urgent information to ships by means of narrow-band direct printing techniques (see Resolution 332 (MOB-87)).
RR 520B	The frequencies 4210 kHz, 6314 kHz, 8416.5 kHz, 12579 kHz, 16806.5 kHz, 19680.5 kHz, 22376 kHz and 26100.5 kHz are the international frequencies for the transmission of Maritime Safety Information (MSI) (see Resolution 333 (MOB-87) and Appendix 31).
RR 521	Different category of service: in URS, the allocation of the band 5130 - 5250 kHz to the mobile, except aeronautical mobile, service is on a primary basis (see RR 425).
RR 522	On condition that harmful interference is not caused to the maritime mobile service, the bands 6200 - 6213.5 kHz and 6220.5 - 6525 kHz may be used exceptionally by stations in the fixed service, communicating only within the boundary of the country in which they are located, with a mean power not exceeding 50 W. At the time of notification of these frequencies, the attention of the International Frequency Registration Board will be drawn to the above conditions.
RR 524	The band 6765 - 6795 kHz (centre frequency 6780 kHz) is designated for industrial, scientific and medical (ISM) applications. The use of this frequency band for ISM applications shall be subject to special authorization by the administration concerned, in agreement with other administrations whose radiocommunication services might be affected. In applying this provision, administrations shall have due regard to the latest CCIR Recommendations.
RR 525	Different category of service: in MNG and URS, the allocation of the band 6765 - 7000 kHz to the land mobile service is on a primary basis (see RR 425).
RR 526	Additional allocation: in AGL, IRQ, KEN, RRW, SOM and TGO, the band 7000 - 7050 kHz is also allocated to the fixed service on a primary basis.
RR 527	Alternative allocation: in EGY, ETH, GUI, LBY, MDG, MWI and TZA, the band 7000 - 7050 kHz is allocated to the fixed service on a primary basis.
RR 528	The use of the band 7100 - 7300 kHz in Region 2 by the amateur service shall not impose constraints on the broadcasting service intended for use within Region 1 and Region 3.
RR 529	In Region 3, the stations of those services to which the band 7995 - 8005 kHz is allocated may transmit standard frequency and time signals.
RR 529A	The conditions for the use of the carrier frequencies 8291 kHz, 12290 kHz and 16420 kHz are prescribed in Articles 38, N38 and 60.
RR 530	On condition that harmful interference is not caused to the broadcasting service, frequencies in the bands 9775 - 9900 kHz, 11650 - 11700 kHz and 11975 - 12050 kHz may be used by stations in the fixed service communicating only within the boundary of the country in which they are located, each station not using a total radiated power exceeding 24 dBW.
RR 531	The bands 9775 - 9900 kHz, 11650 - 11700 kHz, 11975 - 12050 kHz, 13600 - 13800 kHz, 15450 - 15600 kHz, 17550 - 17700 kHz and 21750 - 21850 kHz are allocated to the fixed service on a primary basis subject to the procedure described in Resolution 8. The use of these bands by the broadcasting service shall be subject to provisions established by the World Administrative Radio Conference for the Planning of HF Bands Allocated to the Broadcasting Service (see Resolution 508). The provisions of Resolution 512 (HFBC-87) also apply. Within these bands, the date of commencement of operations in the broadcasting service on a planned channel shall not be earlier than the date of completion of satisfactory transfer, according to the procedure described in Resolution 8, of all assignments to stations in the fixed service operating in accordance with the Table and other provisions of the Radio Regulations, which are recorded in the Master Register and which may be affected by broadcasting operations on that channel.
RR 532	The bands 12230 - 12330 kHz, 16360 - 16460 kHz, 17360 - 17410 kHz, 18780 - 18900 kHz, 19680 - 19800 kHz and 22720 - 22855 kHz are allocated to the fixed service on a primary basis subject to the procedure described in Resolution 8. The use of these bands by the maritime mobile service shall be subject to provisions to be decided by a competent world administrative radio conference. The date of commencement of operations in the

maritime mobile service on a frequency in accordance with the above-mentioned provisions shall not be earlier than the date of completion of satisfactory transfer, in accordance with the procedure described in Resolution 8, of all assignments to stations in the fixed service operating in accordance with the Table and other provisions of the Radio Regulations which are recorded in the Master Register and which may be affected by maritime mobile operations on that frequency.

RR 533 In making assignments to stations of other services to which the band 13360 - 13410 kHz is allocated, administrations are urged to take all practicable steps to protect the radio astronomy service from harmful interference. Emissions from space or airborne stations can be particularly serious sources of interference to the radio astronomy service (see RRs 343 and 344 and Article 36).

RR 534 The band 13553 - 13567 kHz (centre frequency 13560 kHz) is designated for industrial, scientific and medical (ISM) applications. Radiocommunication services operating within this band must accept harmful interference which may be caused by these applications. ISM equipment operating in this band is subject to the provisions of RR 1815.

RR 535 Additional allocation: In AFG, CHN, CTI, IRN and URS, the band 14250 - 14350 kHz is also allocated to the fixed service on a primary basis. Stations of the fixed service shall not use a radiated power exceeding 24 dBW.

RR 536 In Region 3, the stations of those services to which the band 15995 - 16005 kHz is allocated may transmit standard frequency and time signals.

RR 537 The band 18068 - 18168 kHz is allocated to the fixed service on a primary basis subject to the procedure described in Resolution 8. The use of this band by the amateur and amateur-satellite services shall be subject to the complete transfer of all assignments to stations in the fixed service operating in this band and recorded in the Master Register, in accordance with the procedure described in Resolution 8.

RR 538 Additional allocation: in URS, the band 18068 - 18168 kHz is also allocated to the fixed service on a primary basis for use within the boundary of URS, with a peak envelope power not exceeding 1 kW.

RR 539 Alternative allocation: in BUL, HNG, MNG, POL, TCH and URS, the band 21850 - 21870 kHz is allocated to the aeronautical fixed and the aeronautical mobile (R) services on a primary basis.

RR 540 Additional allocation: in NIG, the band 22720 - 23200 kHz is also allocated to the meteorological aids service (radiosondes) on a primary basis.

RR 541 The use of the band 23350 - 24000 kHz by the maritime mobile service is limited to inter-ship radiotelegraphy.

RR 542 Additional allocation: in KEN, the band 23600 - 24900 kHz is also allocated to the meteorological aids service (radiosondes) on a primary basis.

RR 543 The band 24890 - 24990 kHz is allocated to the fixed and land mobile services on a primary basis subject to the procedure described in Resolution 8. The use of this band by the amateur and amateur-satellite services shall be subject to the completion of the satisfactory transfer of all assignments to fixed and land mobile stations operating in this band and recorded in the Master Register, in accordance with the procedure described in Resolution 8.

RR 544 The bands 25110 - 25210 kHz and 26100 - 26175 kHz are also allocated to the fixed and land mobile services on a primary basis subject to the procedure described in Resolution 8. The use of these bands on an exclusive basis by the maritime mobile service shall be subject to provisions to be decided by a competent world administrative radio conference. The date of commencement of operations in the maritime mobile service on a frequency in accordance with the above-mentioned provisions shall not be earlier than the date of completion of satisfactory transfer, in accordance with the procedure described in Resolution 8, of all assignments to stations in the fixed and land mobile services operating in accordance with the Table and other provisions of the Radio Regulations recorded in the Master Register and which may be affected by such maritime mobile operations on that frequency.

RR 545 The band 25550 - 25600 kHz is allocated to the fixed and land mobile, except aeronautical mobile, service on a primary basis subject to the procedure described in Resolution 8. The use of this band by the radio astronomy service shall be subject to the completion of satisfactory transfer of all assignments to stations in the fixed and mobile, except aeronautical mobile, services operating in this band and recorded in the Master Register, in accordance with the procedure described in Resolution 8. The band 25600 - 25670 kHz is allocated to the broadcasting service on a primary basis, subject to provisions to be established by the world administrative radio conference for the planning of HF bands allocated to the broadcasting service (see Resolution 508). After completion of all the above-mentioned provisions, all emissions capable of causing harmful interference to the radio astronomy service in the band 25550 - 25670 kHz shall be avoided. The use of passive sensors by other services will also be authorized.

RR 546 The band 26957 - 27283 kHz (centre frequency 27120 kHz) is designated for industrial, scientific and medical (ISM) applications. Radiocommunication services operating within this band must accept harmful interference which may be caused by these applications. ISM equipment operating in this band is subject to the provisions of RR 1815. ☺

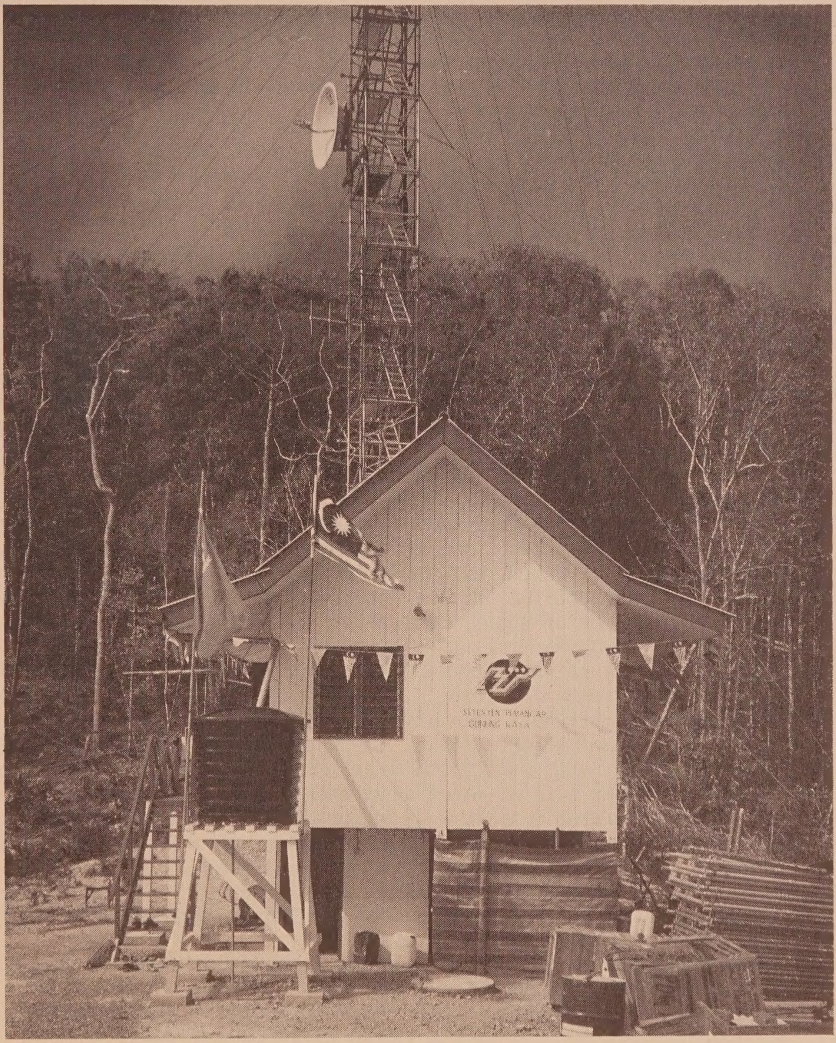

Figure 3 - Setesyen Pemancar Gunung Raya (Mount Raya television station) of STM (Syarikat Telekom Malaysia) near the top of the mountain (see page 318).

4 Identification of stations

Section I - General provisions

RR 2055 All transmissions shall be capable of being identified either by identification signals or by other means.

RR 2055.1 In the present state of technique, it is recognized nevertheless that the transmission of identifying signals for certain radio systems (e.g. radiodetermination, radio relay systems and space systems) is not always possible.

RR 2056 All transmissions with false or misleading identification are prohibited.

RR 2057 Where practicable and in appropriate services, identification signals should be automatically transmitted in accordance with relevant CCIR Recommendations.

RR 2058 All transmissions in the following services should, except as provided in RRs 2066 to 2068, carry identification signals:

RR 2059 a) amateur service;

RR 2060 b) broadcasting service;

RR 2061 c) fixed service in the bands below 28000 kHz;

RR 2062 d) mobile service;

RR 2063 e) standard frequency and time signal service.

RR 2064 All operational transmissions by radiobeacon stations shall carry identification signals. However, it is recognized that, for radiobeacons and for certain other radionavigation services that normally carry identification signals, during periods of malfunction or other non-operational service the deliberate removal of identification signals is an agreed means of warning users that the transmission cannot safely be used for navigational purposes.

RR 2065 When identification signals are transmitted they shall comply with the previsions of this Article.

RR 2066 However, the requirements for certain transmissions to carry identification signals need not apply to:

RR 2067 a) survival craft stations when transmitting distress signals automatically;

RR 2068 b) emergency position-indicating radiobeacons.

RR 2069 In transmissions carrying identification signals a station shall be identified by a call sign ... or by other recognized means of identification which may be one or more of the following: name of station, location of station, operating agency, official registration mark, flight identification number, selective call number or signal, selective call identification number or signal, characteristic signal, characteristic of emission or other clearly distinguishing features readily recognized internationally.

RR 2070 For transmissions carrying identification signals, in order that stations may be readily identified, each station shall transmit its identification as frequently as practicable during the course of transmissions, including those made for tests, adjustments or experiments. During such transmissions, however, identification signals shall be transmitted at least hourly, preferably within the period from five minutes before to five minutes after the hour (UTC) unless to do so would cause unreasonable interruption of traffic, in which case identification shall be given at the beginning and end of transmissions.

RR 2071 Identification signals shall wherever practicable be in one of the following forms:

RR 2072 a) speech, using simple amplitude or frequency modulation;

RR 2073 b) international Morse code transmitted at manual speed;

RR 2074 c) a telegraph code compatible with conventional printing equipment;

RR 2075 d) any other form recommended by the CCIR.

RR 2076 To the extent possible the identification signal should be transmitted in accordance with relevant CCIR Recommendations.

RR 2077 Administrations should ensure that wherever practicable superimposed identification methods be employed in accordance with CCIR Recommendations.

RR 2078 When a number of stations work simultaneously in a common circuit, either as relay stations, or in parallel or different frequencies, each station shall, as far as practicable, transmit its own identification or those of all the stations concerned.

RR 2079 Administrations shall ensure, except in the cases mentioned in RRs 2066 to 2068, that all transmissions not carrying identification signals can be identified by other means when they are capable of causing harmful interference to the services of another administration operating in accordance with these Regulations.

RR 2080 Administrations shall, having regard to the provisions of these Regulations relating to the notification of assignments for recording in the Master Register, adopt their own measures to ensure compliance with the provisions of RR 2079.

RR 2081 Each Member reserves the right to establish its own measures for identifying its stations used for national defence. However, it shall use, as far as possible, call signs recognizable as such, and containing the distinctive characters of its nationality.

Section II - Allocation of international series and assignment of call signs

RR 2082 All stations open to the international public correspondence service, all amateur stations, and other stations which are capable of causing harmful interference beyond the boundaries of the country to which they belong, shall have call signs from the international series allocated to each country as given in the Table of Allocation of International Call Sign Series in Appendix 42 (see chapter 5 of this reference book.)

RR 2086 Between administrative radio conferences, the Secretary-General is authorized to deal with questions relating to changes in the allocation of series of call signs, on a provisional basis, and subject to confirmation by the following conference ...

RR 2089 Each country shall choose the call signs ... from the international series allocated or supplied to it; and shall, in accordance with Article 26, notify this information to the Secretary-General together with the information which is to appear in Lists I, II, IV, V, VI and VIII A. These notifications do not include call signs assigned to amateur and experimental stations.

RR 2091 The Secretary-General shall ensure that the same call sign ... is not assigned more than once and that call signs which might be confused with distress signals, or with other signals of the same nature, are not assigned.

RR 2092 When a fixed station uses more than one frequency in the international service, each frequency may be identified by a separate call sign used solely for this frequency.

RR 2093 When a broadcasting station uses more than one frequency in the international service, each frequency may be identified by a separate call sign used solely for this frequency or by some other appropriate means, such as announcing the name of the place and frequency used.

RR 2094 When a land station uses more than one frequency, each frequency may, if desired, be identified by a separate call sign.

RR 2095 Where practicable, coast stations should use a common call sign for each frequency series.

RR 2095.1 By "frequency series" is meant a group of frequencies each of which belongs to one of the different bands between 4000 kHz and 27500 kHz that are allocated exclusively to the maritime mobile service.

Section III - Formation of call signs

RR 2096 The twenty-six letters of the alphabet, as well as digits in the cases specified below, may be used to form call signs. Accented letters are excluded.

RR 2097 However, the following combinations shall not be used as call signs:

RR 2098 a) combinations which might be confused with distress signals or with other signals of a similar nature;

RR 2099 b) combinations reserved for the abbreviations to be used in the radiocommunication services (see Appendices 13 and 14);

RR 2100 c) for amateur stations, combinations commencing with a digit when the second character is the letter O or the letter I.

RR 2101 Call signs in the international series are formed as indicated in RRs 2102 to 2122. The first two characters shall be two letters or a letter followed by a digit or a digit followed by a letter. The first two characters or in certain cases the first character of a call sign constitute the nationality identification.

RR 2101.1 For call sign series beginning with B, F, G, I, K, M, N, R and W, only the first character is required for nationality identification. In the cases of half series, the first three characters are required for nationality identification.

RR 2102 Land and fixed stations

RR 2103 • two characters and one letter, or

• two characters and one letter followed by not more than three digits (other than the digits 0 and 1 in cases where they immediately follow a letter).

RR 2104 However, it is recommended that, as far as possible, the call signs of fixed stations consist of:

• two characters and one letter followed by two digits (other than the digits 0 and 1 in cases where they immediately follow a letter).

RR 2105 Ship stations

RR 2106 • two characters and two letters, or

• two characters, two letters and one digit (other than the digits 0 or 1).

RR 2107 However, ship stations employing only radiotelephony may also use a call sign consisting of:

• two characters (provided that the second is a letter) followed by four digits (other than the digits 0 and 1 in cases where they immediately follow a letter), or

• two characters and one letter followed by four digits (other than the digits 0 and 1 in cases where they immediately follow a letter).

RR 2108 Aircraft stations

RR 2109 • two characters and three letters.

RR 2110 Ship's survival craft stations

RR 2111 • the call sign of the parent ship followed by two digits (other than the digits 0 and 1 in cases where they immediately follow a letter).

RR 2112 Emergency position-indicating radiobeacon stations

RR 2113 • the Morse letter B and/or the call sign of the parent ship to which the radiobeacon belongs.

RR 2114 Aircraft survival craft stations

RR 2115 • the complete call sign of the parent aircraft (see RR 2109), followed by a single digit other than 0 or 1.

RR 2116 Land mobile stations

RR 2117 • two characters (provided that the second is a letter) followed by four digits (other than the digits 0 and 1 in cases where they immediately follow a letter); or

• two characters and one or two letters followed by four digits (other than the digits 0 and 1 in cases where they immediately follow a letter).

RR 2118 Amateur and experimental stations

RR 2119 • one character (see RR 2101.1) and a single digit (other than 0 or 1), followed by a group of not more than three letters, or

• two characters and a single digit (other than 0 or 1), followed by a group of not more than three letters.

RR 2120 However, the prohibition of the use of the digits 0 and 1 does not apply to amateur stations.

RR 2121 Stations in the space service

RR 2122 When call signs for stations in the space service are employed it is recommended that they consist of:

• two characters followed by two or three digits (other than the digits 0 and 1 in cases where they immediately follow a letter).

Section IV - Identification of stations using radiotelephony

RR 2123 Stations using radiotelephony shall be identified as indicated in RRs 2124 to 2133.

RR 2124 Coast stations

- a call sign (see RR 2103); or
- the geographical name of the place as it appears in the List of Coast Stations, followed preferably by the word RADIO or by any other appropriate indication.

RR 2125 Ship stations

- a call sign (see RRs 2106 and 2107); or
- the official name of the ship preceded, if necessary, by the name of the owner on condition that there is no possible confusion with distress, urgency and safety stations; or
- its selective call number or signal.

RR 2126 Ship's survival craft stations

- a call sign (see RR 2111); or
- a signal of identification consisting of the name of the parent ship followed by three digits.

RR 2127 Emergency position-indicating radiobeacon stations
When speech transmission is used (see RR 3265):

- the name and/or the call sign of the parent ship to which the radiobeacon belongs.

RR 2128 Aeronautical stations

- the name of the airport or geographical name of the place followed, if necessary, by a suitable word indicating the function of the station.

RR 2129 Aircraft stations

- a call sign (see RR 2109), which may be preceded by a word designating the owner or the type of aircraft; or
- a combination of characters corresponding to the official registration mark assigned to the aircraft; or
- a word designating the airline, followed by the flight identification number.

RR 2130 In the exclusive aeronautical mobile frequency bands, aircraft stations using radiotelephony may use other methods of identification, after special agreement between governments, and on condition that they are internationally known.

RR 2131 Aircraft survival craft stations

- a call sign (see RR 2115).

RR 2132 Base stations

- a call sign (see RR 2103); or
- the geographical name of the place followed, if necessary, by any other appropriate indication.

RR 2133 Land mobile stations

- a call sign (see RR 2117); or
- the identity of the vehicle or any other appropriate indication.

Section V - Selective call numbers in the Maritime Mobile Service

RR 2134 When stations of the maritime mobile service use selective calling devices in accordance with Appendices 38 and 39, their call numbers shall be assigned by the responsible administrations in accordance with the provisions below.

RR 2135 Formation of ship station selective call numbers and coast station identification numbers

RR 2136 The ten digits from 0 to 9 inclusive shall be used to form selective call numbers.

RR 2137 However, combinations of numbers commencing with the digits 00 (zero, zero) shall not be used when forming the identification numbers for coast stations.

RR 2138 Ship station selective call numbers and coast station identification numbers in the series are formed as indicated in RRs 2139, 2140 and 2141.

RR 2139 Coast station identification numbers

- four digits (see RR 2137).

RR 2140 Ship station selective call numbers
- five digits.

RR 2141 Predetermined group of ship stations
- five digits consisting of
- the same digit repeated five times; or
- two different digits repeated alternately.

RR 2142 Assignment of ship station selective call numbers and coast station identification numbers

RR 2143 In cases where selective call numbers for ship stations and identification numbers for coast stations are required for use in the maritime mobile service and the selective calling system is in accordance with Appendix 39, the selective call numbers and identification numbers shall be supplied by the Secretary-General on request. Upon notification by an administration of the introduction of selective calling for use in the maritime mobile service:

RR 2144 a) selective call numbers for ships will be supplied as required in blocks of 100 (one hundred);

RR 2145 b) coast station identification numbers will be supplied in blocks of 10 (ten) to meet actual requirements;

RR 2146 c) selective call numbers for selective calling of predetermined groups of ship stations in accordance with RR 2141 will be supplied as required as single numbers.

RR 2147 Each administration shall choose the selective call numbers to be assigned to its ship stations from the blocks of the series supplied to it.

RR 2148 Each administration shall choose the coast station identification numbers to be assigned to its coast stations from the blocks of the series supplied to it.

Section VI - Maritime Mobile Service Identities in the Maritime Mobile Service and the Maritime Mobile-Satellite Service

RR 2149 When a station in the maritime mobile service or the maritime mobile-satellite service is required to use maritime mobile service identities, the responsible administration shall assign the identity to the station in accordance with the provisions described in Appendix 43 and Resolution 320 (Mob-83), taking into consideration relevant CCIR and CCITT Recommendations.

Section VII - Special provisions

RR 2150 In the aeronautical mobile service, after communication has been established by means of the complete call sign, the aircraft station may use, if confusion is unlikely to arise, an abbreviated call sign or identification consisting of:

RR 2151 a) in radiotelegraphy, the first character and last two letters of the complete call sign (see RR 2109);

RR 2152 b) in radiotelephony:
- the first character of the complete call sign; or
- the abbreviation of the name of the owner of the aircraft (company or individual); or
- the type of aircraft; followed by the last two letters of the complete call sign (see RR 2109) or by the last two characters of the registration mark.

RR 2153 The provisions of RRs 2150, 2151 and 2152 may be amplified or modified by agreement between administrations concerned.

RR 2154 The distinguishing signals allotted to ships for visual and aural signalling shall, in general, agree with the call signs of ship stations.

Call sign formation possibilities

Note: The actual number of combinations may be less, in order to comply with RRs 2097 - 2100. .. represents the first two characters of allocated call sign series (see chapter 5)

Type of station	RR	Permitted formations	Combinations	Remarks
Aircraft	2109	..AAA - ..ZZZ	17576	
Aircraft survival craft	2115	p2 - p9	8 per aircraft	p = complete call sign of the parent aircraft (see RR 2109)
Amateur	2119	f0A - f9Z	260	f = first character, provided it is B, F, G, I, K, M, N, R or W (see RR 2101)
	2120	f0AA - f9ZZ	6760	
		f0AAA - f9ZZZ	175760	
		..0A - ..9Z	260	call signs commencing with a digit when the second character is the letter O or I are not permitted (see RR 2100)
		..0AA - ..9ZZ	6760	
		..0AAA - ..9ZZZ	175760	
Emergency position-indicating radio beacon	2113	B	no limit	B = Morse letter B
		p		p = call sign of the parent ship (see RRs 2106 and 2107)
		Bp		
Experimental	2119	f2A - f9Z	208	f = first character, provided it is B, F, G, I, K, M, N, R or W (see RR 2101)
		f2AA - f9ZZ	5408	
		f2AAA - f9ZZZ	140608	
		..2A - ..9Z	208	
		..2AA - ..9ZZ	5408	
		..2AAA - ..9ZZZ	140608	
Fixed	2103	..A - ..Z	26	
		..A2 - ..Z9	208	
		..A20 - ..Z99	2080	recommended, as far as possible (see RR 2104)
		..A200 - ..Z999	20800	
Land	2103	..A - ..Z	26	
		..A2 - ..Z9	208	
		..A20 - ..Z99	2080	
		..A200 - ..Z999	20800	
Land mobile	2117	.s2000 - .s9999	8000	s = second character, provided it is a letter
		..A2000 - ..Z9999	208000	
		..AA2000 - ..ZZ9999	5408000	
Ship	2106	..AA - ..ZZ	676	
		..AA2 - ..ZZ9	5408	
	2107	.s2000 - .s9999	8000	s = second character, provided it is a letter
		..A2000 - ..Z9999	208000	
Ship's survival craft	2111	p00 - p99	100 per ship	if last character of p is a digit (p = call sign of the parent ship (see RRs 2106 and 2107))
		p20 - p99	80 per ship	if last character of p is a letter
Space service	2122	..00 - ..99	100	if second character is a digit
		..000 - ..999	1000	
		..20 - ..99	80	if second character is a letter ☺
		..200 - ..999	800	

5 Table of allocation of international call sign series

For the reverse list giving countries and the corresponding international call sign series, see chapter 24.

AA - AL	United States of America
AM - AO	Spain
AP - AS	Pakistan
AT - AW	India
AX	Australia
AY - AZ	Argentina
A2	Botswana
A3	Tonga
A4	Oman
A5	Bhutan
A6	United Arab Emirates
A7	Qatar
A8	Liberia
A9	Bahrain
B	China and Taiwan
CA - CE	Chile
CF - CK	Canada
CL - CM	Cuba
CN	Morocco
CO	Cuba
CP	Bolivia
CQ - CU	Portugal
CV - CX	Uruguay
CY - CZ	Canada
C2	Nauru
C3	Andorra
C4	Cyprus
C5	Gambia
C6	Bahamas
C7	World Meteorological Organization
C8 - C9	Mozambique
DA - DR	Germany
DS - DT	Korea (Republic of)
DU - DZ	Philippines
D2 - D3	Angola
D4	Cape Verde
D5	Liberia
D6	Comoros
D7 - D9	Korea (Republic of)
EA - EH	Spain
EI - EJ	Ireland
EK	Union of Soviet Socialist Republics
EL	Liberia
EM - EO	Union of Soviet Socialist Republics
EP - EQ	Iran
ER - ES	Union of Soviet Socialist Republics
ET	Ethiopia
EU - EW	Byelorussia

EX - EZ	Union of Soviet Socialist Republics
F	France
G	United Kingdom
HA	Hungary
HB	Switzerland
HC - HD	Ecuador
HE	Switzerland
HF	Poland
HG	Hungary
HH	Haiti
HI	Dominican Republic
HJ - HK	Colombia
HL	Korea (Republic of)
HM	Korea (Democratic People's Republic of)
HN	Iraq
HO - HP	Panama
HQ - HR	Honduras
HS	Thailand
HT	Nicaragua
HU	El Salvador
HV	Vatican City State
HW - HY	France
HZ	Saudi Arabia
H2	Cyprus
H3	Panama
H4	Solomon Islands
H6 - H7	Nicaragua
H8 - H9	Panama
I	Italy
JA - JS	Japan
JT - JV	Mongolia
JW - JX	Norway
JY	Jordan
JZ	Indonesia
J2	Djibouti
J3	Grenada
J4	Greece
J5	Guinea-Bissau
J6	Saint Lucia
J7	Dominica
J8	Saint Vincent and the Grenadines
K	United States of America
LA - LN	Norway
LO - LW	Argentina
LX	Luxembourg
LY	Union of Soviet Socialist Republics
LZ	Bulgaria
L2 - L9	Argentina
M	United Kingdom

N	United States of America
OA - OC	Peru
OD	Lebanon
OE	Austria
OF - OJ	Finland
OK - OM	Czechoslovakia
ON - OT	Belgium
OU - OZ	Denmark
PA - PI	Netherlands
PJ	Netherlands Antilles
PK - PO	Indonesia
PP - PY	Brazil
PZ	Suriname
P2	Papua New Guinea
P3	Cyprus
P4	Aruba
P5 - P9	Korea (Democratic People's Republic of)
R	Union of Soviet Socialist Republics
SA - SM	Sweden
SN - SR	Poland
SSA - SSM	Egypt
SSN - ST	Sudan
SU	Egypt
SV - SZ	Greece
S2 - S3	Bangla Desh
S6	Singapore
S7	Seychelles
S9	Sao Tome and Principe
TA - TC	Turkey
TD	Guatemala
TE	Costa Rica
TF	Iceland
TG	Guatemala
TH	France
TI	Costa Rica
TJ	Cameroon
TK	France
TL	Central African Republic
TM	France
TN	Congo
TO - TQ	France
TR	Gabon
TS	Tunisia
TT	Chad
TU	Ivory Coast
TV - TX	France
TY	Benin
TZ	Mali
T2	Tuvalu
T3	Kiribati
T4	Cuba
T5	Somalia
T6	Afghanistan
T7	San Marino
UA - UQ	Union of Soviet Socialist Republics
UR - UT	Ukrainia
UU - UZ	Union of Soviet Socialist Republics
VA - VG	Canada
VH - VN	Australia
VO	Canada
VP - VS	United Kingdom
VT - VW	India
VX - VY	Canada
VZ	Australia
V2	Antigua and Barbuda
V3	Belize
V4	Saint Kitts and Nevis
V6	Micronesia
V7	Marshall Islands
V8	Brunei
W	United States of America
XA - XI	Mexico
XJ - XO	Canada
XP	Denmark
XQ - XR	Chile
XS	China and Taiwan
XT	Bourkina Faso
XU	Cambodia
XV	Viet Nam
XW	Laos
XX	Portugal
XY - XZ	Myanmar
YA	Afghanistan
YB - YH	Indonesia
YI	Iraq
YJ	Vanuatu
YK	Syria
YL	Union of Soviet Socialist Republics
YM	Turkey
YN	Nicaragua
YO - YR	Romania
YS	El Salvador
YT - YU	Yugoslavia
YV - YY	Venezuela
YZ	Yugoslavia
Y2 - Y9	Germany
ZA	Albania
ZB - ZJ	United Kingdom
ZK - ZM	New Zealand
ZN - ZO	United Kingdom
ZP	Paraguay
ZQ	United Kingdom
ZR - ZU	South Africa (Republic of)
ZV - ZZ	Brazil
Z2	Zimbabwe
2	United Kingdom
3A	Monaco
3B	Mauritius
3C	Equatorial Guinea
3DA - 3DM	Swaziland
3DN - 3DZ	Fiji
3E - 3F	Panama
3G	Chile
3H - 3U	China and Taiwan

3V	Tunisia
3W	Viet Nam
3X	Guinea
3Y	Norway
3Z	Poland
4A - 4C	Mexico
4D - 4I	Philippines
4J - 4L	Union of Soviet Socialist Republics
4M	Venezuela
4N - 4O	Yugoslavia
4P - 4S	Sri Lanka
4T	Peru
4U	United Nations
4V	Haiti
4W	Yemen
4X	Israel
4Y	International Civil Aviation Organization
4Z	Israel
5A	Libya
5B	Cyprus
5C - 5G	Morocco
5H - 5I	Tanzania
5J - 5K	Colombia
5L - 5M	Liberia
5N - 5O	Nigeria
5P - 5Q	Denmark
5R - 5S	Madagascar
5T	Mauritania
5U	Niger
5V	Togo
5W	Samoa (Western)
5X	Uganda
5Y - 5Z	Kenya
6A - 6B	Egypt
6C	Syria
6D - 6J	Mexico
6K - 6N	Korea (Republic of)
6O	Somalia
6P - 6S	Pakistan
6T - 6U	Sudan
6V - 6W	Senegal
6X	Madagascar
6Y	Jamaica
6Z	Liberia
7A - 7I	Indonesia
7J - 7N	Japan
7O	Yemen
7P	Lesotho
7Q	Malawi
7R	Algeria
7S	Sweden
7T - 7Y	Algeria
7Z	Saudi Arabia
8A - 8I	Indonesia
8J - 8N	Japan
8O	Botswana
8P	Barbados
8Q	Maldives
8R	Guyana
8S	Sweden
8T - 8Y	India
8Z	Saudi Arabia
9A	San Marino
9B - 9D	Iran
9E - 9F	Ethiopia
9G	Ghana
9H	Malta
9I - 9J	Zambia
9K	Kuwait
9L	Sierra Leone
9M	Malaysia
9N	Nepal
9O - 9T	Zaire
9U	Burundi
9V	Singapore
9W	Malaysia
9X	Rwanda
9Y - 9Z	Trinidad and Tobago ☺

6 Call sign list of utility stations

Listed are
- call sign;
- name of the station, and ITU country/geographical symbol;
- frequency (-ies) in kHz.

RTTY frequencies are emphasized by **bold type**. *FAX frequencies* are accentuated by *italic type*. Frequencies carrying ***both FAX and RTTY*** emissions are, consequently, printed in ***bold italic type***.

In order to meet the size requirements of a compact reference book, a special collective format is used for this list. Two examples will explain the meaning:

"CFH	CF Halifax, NS, CAN	**122.5** 4255.0 ***4271.0***" means	
"CFH	Canadian Forces Halifax, Nova Scotia, Canada	122.5 kHz	RTTY frequency
		4255.0 kHz	
		4271.0 kHz	FAX/RTTY frequency"
"LGJ/.	Rogaland R, NOR	-/12727.5 3/**13081.0** 4/**13097.0**" means	
"LGJ	Rogaland Radio, NOR	12727.5 kHz	
LGJ 3	Rogaland Radio, NOR	13081.0 kHz	RTTY frequency
LGJ 4	Rogaland Radio, NOR	13097.0 kHz	RTTY frequency"

AEA	USA Heidelberg, D	11118.0
AEM 1USA	USA MARS Heidelberg, D	**3934.0 19026.2 19026.7**
AFA	USAF Andrews AFB, Camp Springs, MD, USA	6683.0 6730.0 6750.0 6756.0 6812.0 6830.0 11055.0 11246.0 13204.0 13247.0 15018.0 15041.0 18027.0
AFE	USAF MacDill AFB, Tampa, FL, USA	4746.0 5688.0 11179.0 11246.0 13210.0 13244.0 18019.0
AFE 70	USAF Cp. Canaveral, FL, USA	8972.0 20192.0 23035.0
AFE 83	USAF Wideawake, ASC	6750.0 8967.0 10780.0 13244.0 15015.0 20192.0 22990.0 23035.0
AFE 86	USAF Cedar Grove, ATG	10780.0 20192.0 23035.0
AFH	USAF Albrook AFB, Balboa, PNR	15015.0 18019.0 20885.0
AFI	USAF McClellan AFB, Sacramento, CA, USA	6730.0 6738.0 9017.0 11239.0 13201.0 15031.0 17975.0 18002.0
AFL	USAF Loring AFB, Limestone, ME, USA	5688.0 11179.0 13214.0
AFS	USAF AWS Offutt AFB, Omaha, NE, USA	**3229.0** *3232.0* **6902.0** *6905.0* **11118.0** *11121.0* **19324.0** *19328.0*
AGA	USAF Hickam AFB, Honolulu, HWA	6738.0 8964.0 11179.0 18002.0
AGA 8HI	USAF MARS Hickam AFB, Honolulu, HWA	7914.0
AIC	USAF Clark AFB, Luzon, PHL	6738.0 9011.0 13201.0 14775.0 18002.0
AIE	USAF Andersen AFB, GUM	6738.0 8967.0 9023.0 11226.0 13201.0 18005.0
AIF 80	USAF Yokota, J	8967.0
AIR	USAF MARS Andrews AFB, Camp Springs, MD, USA	13993.0 **14392.2**
AJE	USAF AWS Croughton, G	**15870.0**
AJE	USAF Croughton, G	3067.0 5703.0 6750.0 9011.0 **9237.5** 9242.2 9334.3 10537.8 11226.0 11229.0 13214.0 16041.3
AJO	USAF Adana, TUR	13214.0 15015.0
AKA	USAF Elmendorf AFB, Anchorage, ALS	13201.0 13247.0
AOK	USN Rota, E	*4704.0 5785.0* 5917.5 7705.0 *9382.5 9875.0 12315.0* **14360.0** *17585.0* **18016.5 20348.1**
AQP/..	PN Karachi, PAK	-/19660.0 + 27440.0 2/2457.5 3/4325.0 4/6390.0 5/8490.0 6/13011.0 7/17093.6 8/22425.0 9/19473.0 10/20490.0 + 20820.0 13/25355.0

ARA	Karachi Meteo, PAK	**19682.8**
ARL 16	Karachi, PAK	19782.0
ASK	Karachi R, PAK	2352.5 3884.4 4250.0 4400.8 4413.2 4425.6 6414.5 6515.7 8658.0 8670.0 8694.0 8725.1 8743.7 8771.6 8811.9 13024.5 13051.5 13141.1 13184.5 13196.9 17050.4 17156.0 17267.0 22676.6 22716.9
ATA	Delhi TS, IND	5000.0 10000.0 15000.0
ATA 55	Delhi Meteo, IND	*4993.5*
ATB 68	MEA Delhi, IND	**18255.0**
ATP 57	Delhi Meteo, IND	*7403.0*
ATP 65	MEA Delhi, IND	**14785.0**
ATQ 38	Delhi Meteo, IND	*18225.0*
ATR 68	OTS Calcutta, IND	**18035.0**
ATV 65	Delhi Meteo, IND	*14842.0*
AWD	Delhi Air, IND	**8071.3**
AWM	Madras Air, IND	13455.0
AXF	RAAF Sydney, NSW, AUS	9032.0 13205.5
AXI 3.	Darwin Meteo, NT, AUS	32/*5755.0* 33/*7535.0* 34/*10555.0* 35/*15615.0* 36/*18060.0*
AXJ	RAAF Pearce, WA, AUS	8975.5 11236.0
AXM 3.	Canberra Meteo, ACT, AUS	31/*2628.0* 32/*5100.0* 34/***11030.0*** 35/***13920.0*** 37/***20469.0***
AYA/..	INTERPOL Buenos Aires, ARG	-/**19405.0** 29/**24110.0**
AZG 641	AP Buenos Aires, ARG	*11480.0*
A2SK	Gaborone Air, BOT	**5287.0**
A3A	Nuku'alofa R, TON	2080.0
A4M	Muscat R, OMA	2604.0 2607.0 3742.0 3745.0 4233.0 4366.7 8445.0 8790.2 12675.5 16868.0
A7D	Doha R, QAT	2601.0 2768.0 3673.0 4231.0 4316.0 4356.0 4382.2 4425.6 8473.0 8630.0 8709.5 8728.2 8796.4 12966.3 13024.0 13100.8 13187.6 16880.0 16935.0 17310.4 22701.4
A7S	GULPECO Doha R, QAT	2370.0
A7S 31	Halul Island R, QAT	2370.0
A9M	Hamala R, BHR	2607.0 2656.0 3745.0 4284.0 4302.0 4394.6 8448.0 8454.0 8716.0 8718.9 8734.4 12698.0 12709.0 13086.5 13125.6 17169.0 17175.2 **17202.0** 17285.6 22312.0 22322.0 **22584.0** 22611.5
A9M ..	GNA Manama, BHR	9/**4042.5** 41/**9197.5** 70/**14764.0**
BAA..	Beijing Meteo, CHN	8/**10320.0** 9/**5180.5** 22/**7815.0** 23/**9193.0** 24/**5730.0**
BAC ..	PTT Beijing, CHN	7/**17131.0** 24/**14604.0**
BAF/..	Beijing Meteo, CHN	-/*3170.0+7600.0+10167.0+14445.0+22742.0* 4/*10117.0* 6/*5527.0* 8/*14367.0* 9/*16025.0* 33/*18237.0* 36/*8122.0* 44/**7350.5** 47/**14340.0**
BAL 32	PTT Beijing, CHN	**17403.0**
BAO ..	PTT Beijing, CHN	2/**17497.0** 26/**6800.0**
BAP 4.	XINHUA Beijing, CHN	40/**10982.0** 44/**14923.0** 46/**6915.0**
BAT 93	XINHUA Beijing, CHN	**14760.0**
BB. ..	PTT Shanghai, CHN	A45/**10905.0** E52/**17400.0**
BC. ..	PTT Shanghai, CHN	A95/**13779.0** C22/**16352.0**
BDF	Shanghai Meteo, CHN	*7420.0 11420.0 15965.0 16435.0 18940.0*
BJZ 2.	Wuhan Meteo, CHN	21/**7863.0** 23/**10650.0** 25/**4482.0** 27/**5315.0**
BLM 2.	Chengdu Meteo, CHN	21/**5844.0** 22/**8190.0** 23/**10470.0**
BMB	Taipei Meteo, TAI	3641.0 5909.0 8117.0 13560.0
BPA	Urumqi Air, CHN	20467.0
BPK 32	Beijing Meteo, CHN	**12922.0**
BPM	Xi'an TS, CHN	5000.0 10000.0 15000.0
BSB ..	Lanzhou Meteo, CHN	29/**6985.0** 35/**13360.0**

BSF	Taipei TS, TAI	5000.0 15000.0
BUA 21	XINHUA Beijing, CHN	*5815.0*
BZC 75	Urumqi Meteo, CHN	**3780.0 5190.0 11570.0**
BZ. ..	XINHUA Beijing, CHN	**G41/11133.0 G48/17443.0 G49/19384.0 M45/14795.5 P51/14367.0 P57/7520.0 P58/17214.0 R62/12265.0 R66/16136.0 R67/7650.0 R68/18872.0 S28/17470.0 T34/14376.0 Z28/*9324.0***
CAI 7E	Hanga Roa Air, PAQ	**13200.0**
CAK	Santiago Air, CHL	**11100.0 14600.0**
CAN 6D	Presidente Eduardo Frei Montalva Meteo, CHL	*5302.5 11662.5 15470.0*
CBM	DGTMMM Magallanes R, CHL	4322.0 8694.0 13103.9 13153.5 13172.1
CBM 9	ETAL Punta Arenas R, CHL	4357.4 6506.4 8718.9 13103.9
CBO	DGTMMM Pta. Corona R, CHL	4247.0 13103.9 13153.5
CBV	DGTMMM Valparaiso R, CHL	1997.5 *4228.0* 4256.0 4265.0 4301.0 4337.0 4349.0 6337.0 6372.0 6379.5 6393.0 6407.5 6414.5 6428.0 6467.0 8453.0 8461.0 8478.0 8522.0 8606.0 *8677.0* 12663.0 12714.0 12743.0 12747.5 12768.0 12826.5 12856.0 12898.5 12957.0 **13075.5** 13103.9 13131.8 13153.5 13172.1 13178.3 13184.5 16851.0 16914.5 16947.6 16956.0 17002.4 17039.0 *17144.4* 17201.5 17325.9 17353.8 22360.5 22447.0 22473.0 22546.0 22565.5 22670.4 22716.9
CBV 3	DGTMMM Hanga Roa R, PAQ	2738.0 4357.4 4369.8 4413.2 6506.4 6515.7 8774.7 13131.8
CCM	CN Magallanes, CHL	**7541.5**
CCS	CN Santiago, CHL	*4766.0 6418.0* **6978.0** 6981.5 *8594.0* 8595.5 **12958.3** 12960.0 **13523.0** *13525.0 22071.0*
CFH	CF Halifax, NS, CAN	***122.5*** 4255.0 ***4271.0*** 4363.6 5097.0 5684.0 5718.0 ***6330.0*** 6430.0 6509.5 6693.0 6716.0 6746.0 8697.0 8746.8 9006.0 9010.0 ***10536.0*** 10945.0 12726.0 13187.6 13254.0 ***13510.0*** 15920.0 16926.5 17251.5 22599.1
CFW	Vancouver R, BC, CAN	2538.0 2558.0 4410.1 6515.7 8759.2
CGA 266	Prince Rupert R, BC, CAN	2060.0 2590.0
CHR	CF Trenton, ONT, CAN	6753.0 9006.0 11214.0 13527.0 15035.0 18012.0
CHU	Ottawa TS, ONT, CAN	3330.0 7335.0 14670.0
CJX	CF Saint John's, NFLD, CAN	3151.0 5718.0 6753.0 9006.0 13254.0 15035.0
CKN	CF Vancouver, BC, CAN	124.0 3287.0 *4268.0* 4422.5 6384.5 6455.5 *6456.0* 6506.4 8463.0 8774.7 12702.0 *12753.0* 13141.1 16960.0 17310.4 22689.0
CLA ..	Habana R, CUB	2/4235.0 3/4225.0 4/6454.0 5/6337.0 20/8496.0 21/8573.0 22/8690.0 30/12748.0 31/12792.0 32/13062.0 + 26124.0 33/12673.5 40/16961.0 41/17165.6 50/22396.0 51/22357.5 60/4410.1 62/4357.4 64/8743.7 67/8759.2 68/13150.4 71/13184.5 72/17310.4 75/17316.6 76/22692.1
CLJ	Habana R, CUB	6403.0 6482.0 8541.0 8609.0 12828.0 12838.0 16996.0 17023.0
CLK	Nuevitas R, CUB	2694.0
CLK 2	Santa Cruz del Sur R, CUB	2522.0
CLM	Santiago de Cuba R, CUB	2419.0
CLN 219	PL Habana, CUB	**8140.0**
CLN 411	PL Habana, CUB	**13826.5**
CLN 451	PL Habana, CUB	**14901.0**
CLN 484	PTT Habana, CUB	**15696.5**
CLN 530	PL Habana, CUB	**16348.0**
CLN 603	PL Habana, CUB	**18193.5**
CLO	Habana R, CUB	2738.0
CLP 1	MFA Habana, CUB	**12255.0 14240.6 14970.0 18614.0 18630.0 19260.0 19455.0 19935.0 19961.0 20035.0 20110.0 20190.3 20405.0 20434.0 20787.0 20996.0 21956.6 23340.3**
CLP 3	Cuban E Beirut, LBN	**20765.2**
CLP 4	Cuban E Bissau, GNB	**20765.5**
CLP 5	Cuban E Moscow, RU, URS	**20822.0 20842.0**

CLP 7	Cuban E Brazzaville, COG	**12083.5**
CLP 18	Cuban E Dar es Salaam, TZA	**15980.0 16070.0**
CLP 25	Cuban E Maputo, MOZ	**18820.0**
CLP 67	Cuban E Baghdad, IRQ	**13828.8**
CLS	Habana F R, CUB	4328.0 4349.0 6360.0 6392.0 8489.0 8516.0 12878.0 12919.0 12954.0 16863.5 16921.0 17047.0 17175.2 17189.6 22345.4 22428.0
CLT	Habana R, CUB	2582.0 2711.0
CLT 3	Nueva Gerona F R, CUB	2198.0 2694.0
CLY	Habana R, CUB	4286.0 6327.5 8624.0 12910.0 17083.0 22440.0
CML ..	PTT Habana, CUB	5/**7407.0** 28/**10220.0**
CMU 967	SN Habana, CUB	14492.0 14968.0
CND	Agadir R, MRC	1911.0 2593.0
CND 3	Safi R, MRC	1743.0 2635.0
CNM	MAP Rabat, MRC	20.1X/**7842.4** 29/**10213.0** 37.9X/**10634.1** 59X9/**14574.4** 61/**14760.0** 66X2/**15752.7** 69.1X/**16000.0** 76X9/**18220.9** 80X11/**18496.1** 85X11/**19171.1**
CNP	Casablanca R, MRC	2586.0 2663.0 8686.0 8802.6 12695.5 13169.0 17170.4 17347.6
CNW	Tanger R, MRC	1911.0 2635.0
COB 4	Matanzas F R, CUB	2083.0 2836.0
COB 5	Casilda F R, CUB	2406.0
COB 6	Camagüey F R, CUB	2833.0
COB 7	Manzanillo F R, CUB	2030.0
COB 8	Santiago de Cuba F R, CUB	2738.0
COB 20	La Coloma F R, CUB	2315.0
COB 21	Nueva Gerona F R, CUB	2122.0
COB 22	Arroyos de Mantua F R, CUB	2315.0
COB 32	Flota del Golfo F R, CUB	2805.0 4422.5 8725.1
COB 34	Flota Atunera F R, CUB	4382.2 8725.1 13131.8 17248.4 22627.0
COB 35	Batabano F R, CUB	2206.0
COB 36	Flota Cubana F R, CUB	2670.0 4382.2 8725.1 13131.8 17248.4 22627.0
COB 41	Cienfuegos F R, CUB	2406.0 2839.0 4422.5
COB 42	Cardenas F R, CUB	2836.0
COB 52	Caibarien F R, CUB	2824.0
COB 60	Santa Cruz F R, CUB	2110.0
COB 61	Ciego de Avila F R, CUB	2670.0
COB 62	Nuevitas F R, CUB	2833.0
COB 72	Puerto Padre F R, CUB	2787.0
COB 90	Holguin F R, CUB	2787.0
COB 94	Gibara F R, CUB	2787.0
COL	Habana Air, CUB	7848.0 8840.0 15024.0
CSE	PAF Lisbon, POR	13803.0
CSP	Lisbon Police, POR	**3282.5**
CSY	Santa Maria Air, AZR	**5474.0 6999.0 9994.0 10540.2 12323.0 14497.5**
CTH ..	PN Horta, AZR	3/13067.0 + **13070.0** 21/3618.5 47/6331.0
CTP	NATO Lisbon, POR	3782.0 6389.0 7564.0 **7829.0** 8500.0 8551.6 12823.5 16985.0
CTU ..	PN Lisbon, POR	2/12999.5 + **13002.5** 7/**17086.3** 28/8699.5
CTV .	PN Lisbon, POR	4/**4235.5** 7/**17056.7** 8/8642.0
CTW 8	PN Lisbon, POR	8523.5 **8526.5**
CUA ..	CPRM Lisbon, POR	48/9419.0 67/**13380.0** 68/**13400.0** 69/13420.0
CUB	Funchal R, MDR	1663.5 2843.0 4434.9
CUG	Ponta Delgada R, AZR	1663.5 2742.0 4434.9
CUL/..	Lisbon R, POR	-/2581.0 + 2694.0 + 2781.0 + 3605.0 + 4394.6 + 6509.5 + 8722.0 + 13107.0 + **17225.0** + 17276.3 + 22614.6 4/4292.0 6/6393.5 7/8490.0 8/8469.0 20/12943.5 22/16959.2 24/22479.0
CUW	PAF/USAF Lajes AFB, AZR	4746.0 8964.0 8967.0 **9173.0** 11226.0 11271.0 13244.0
CWA	Cerrito R, URG	4346.0 6435.5 8602.0 12750.0 16871.3 22312.5
CWC 30	UN La Paloma, URG	2638.0 3860.6
CWC 39	UN Montevideo, URG	2638.0 2738.0 3860.6
CWF	Punta Carretas R, URG	2768.5 4357.4 6518.8 13128.7 17260.8 22636.3

CWT	Puerto Montevideo R, URG	2125.0 4297.0
CXR	UN Montevideo, URG	**13814.0 15950.0 20447.0 20473.5 20495.0**
C2N	Makwa R, NRU	2201.0 8686.0 8768.5 17194.0
C6N/.	Nassau R, BAH	-/4220.5+6376.0+8441.0+12752.0 2/2522.0+2558.0
C6N 55	Coral Harbour R, BAH	8740.6
C6X 2	Marsh Harbour R, BAH	2582.0
C8E 231	Beira, MOZ	11045.0
C8Z 650	ICRC Maputo, MOZ	**29702.5**
C9C 3	MN Maputo, MOZ	4307.0
C9C 6	MN Maputo, MOZ	8642.0
C9C 7	MN Maputo, MOZ	13042.5
C9C 8	MN Maputo, MOZ	2601.0
C9C 9	MN Nacala, MOZ	2601.0
C9C 20	MN Pemba, MOZ	2601.0
C9L 2	Maputo R, MOZ	2575.0 4289.0 8698.0 13056.0
C9L 6	Mocambique R, MOZ	4289.0 8698.0 13056.0
DA.	Norddeich R, D	B/17082.0 F/4220.5+6363.5+8672.5+12832.5+17048.0+22415.0+26227.5 H/4394.6+8802.6+13134.9+17350.7+22661.1 I/4425.6+8777.8+13153.5+17335.2+22664.2 J/4397.7+6506.4+8768.5+13172.1+17279.4+22614.6 K/4391.5+8762.3+13122.5+17304.2+22710.7 L/4244.0+6456.5+8511.9+13027.5+17177.6+22340.3+26340.0 M/4265.0+6475.5+8638.5+12763.5+16980.4+22476.0+25196.0 N/1796.0+1799.0+1908.0+1911.0+2611.0+2614.0+**2727.0**+2799.0+2845.0+2848.0+4308.5+6435.5+8483.5+12898.5+17143.6+22515.0+26108.0 P/4357.4+8790.2+13113.2+17260.8+22645.6
DAO	Kiel R, D	1880.0 1883.0 1915.0 1918.0 2772.0 2775.0
DCF	Norddeich R, D	**17227.0**
DCF 30	DPA Hamburg, D	**110.6**
DCF 37	Offenbach Meteo, D	*117.4*
DCF 39	DPA Frankfurt, D	*139.0*
DCF 42	PIAB Bonn, D	**123.7**
DCF 45	VWD Frankfurt, D	**129.1**
DCF 54	Offenbach Meteo, D	*134.2*
DCF 60	EPD/SID Frankfurt, D	*140.3*
DCF 77	Mainflingen TS, D	77.5
DCL	Norddeich R, D	**6500.5 13078.5 17219.5 22576.0**
DD. ..	Hamburg Meteo, D	H3/*3855.0* H7/**7646.0** H9/11039.0 H47/147.3 K2/**4583.0** K3/*7880.0* K6/*13882.5* K8/**11638.0**
DEB	INTERPOL Wiesbaden, D	**5208.5**
DER	MOI Bonn, D	**2296.4**
DFC 37	BMPT Frankfurt, D	3370.0
DFD 21	BMPT Frankfurt, D	4010.0
DFE 2.	DW Cologne feeder, D	25/5195.0 28/5280.0
DFG 91	DW Cologne feeder, D	7917.5
DFH 23	PIAB Bonn, D	**8132.0**
DFH 23L2	DW Cologne, D	**8130.5**
DFK 25L1	DW Cologne, D	**10127.4**
DFK 92	DW Cologne feeder, D	10922.0
DFL 21	DW Cologne feeder, D	11030.0
DFL 26	PIAB Bonn, D	**11123.6**
DFN 92	PIAB Bonn, D	**13927.7**
DFP 59	DW Cologne feeder, D	14810.0
DFQ 21L1	PIAB Bonn, D	**16017.4**
DFS 70	PIAB Bonn, D	**18704.3**
DFU 20H3	PIAB Bonn, D	**20022.4**
DFU 20L1	DW Cologne, D	**20019.4**
DFW 36	HAB Hamburg, D	**22361.0**
DFX	PIAB Bonn, D	54/23545.0 69/**23692.6** 69H6/**23697.6**
DFZ ..	PIAB Bonn, D	32/**25320.6** 64/**26441.5**
DGW 36	HAB Hamburg, D	22361.0

DHJ 51	Grengel Meteo, D	**2209.0** *2342.5* **2408.0 2622.5 2691.0 3035.5 3166.5 3318.0 3825.5** *4570.5* **4785.5 5083.0 9318.0 11125.0 13526.0**
DHJ 59	GN Wilhelmshaven, D	1830.5 2680.5 4277.0 4283.0 6339.0 6913.0 8648.0 12705.0 16265.0
DHL 26	LKA Stuttgart, D	**5024.5**
DHL 28	LKA Bremen, D	**5022.0**
DHM 44	Grengel Meteo, D	**2195.5 4903.0**
DHM 91	GAF Münster, D	11217.0 13248.0
DHM 95	CF Lahr, D	5690.0 9006.0 13231.0
DHN 37	Grengel Meteo, D	**2822.0 3073.5 4963.5**
DHO 38	GN West Rhauderfehn, D	**23.4**
DMK	MFA Bonn, D	**11538.4 13928.6 14357.5 14663.5 15856.6 16248.5 17518.5 18289.5 22905.5 25419.5**
DSB	Pusan F R, KOR	1920.0 2015.0 2091.0 2595.0 2735.0 2812.5 3224.0 3871.0 4249.0 6328.0 8436.0
DSC	Mokp'o F R, KOR	2537.0
DSD	Yosu F R, KOR	2107.5 2521.1 2530.0 2560.0 4284.0 6360.0 8466.0
DSQ	Inchon F R, KOR	2040.0 2438.0 2521.1 2590.0 4252.0 6385.5 8532.0
DSR 52	Geojin F R, KOR	2027.0 2449.0 2530.0 2550.0 2723.6
DSV	Fupo F R, KOR	2521.1 2537.0
DUF	Manila R, PHL	4238.0 6357.0 8476.0 12714.0 16952.0
DUN	PN Manila, PHL	4244.0 4344.0 6366.0 8488.0 8688.0 12732.0 13032.0 16976.0 22351.5 22402.0
DUS	Manila R, PHL	4242.0 6363.0 8484.0 12726.0 16968.0
DUW	Manila R, PHL	4248.0 6372.0 8496.0 12744.0 16992.0
DVB 4	Malabon R, PHL	8756.1
DVC 8	Navotas R, PHL	8746.8
DVF 7	Navotas R, PHL	6506.4
DVG 2	Quezon City R, PHL	8762.3
DVG 8	Quezon City R, PHL	8718.9
DVG 9	Albay R, PHL	8718.9
DVM 2	Makati R, PHL	4298.0 6447.0 8596.0 12894.0
DVM 4	Manila R, PHL	6332.5 8668.0
DVP 3	Quezon City R, PHL	8722.0
DVR 3	Manila R, PHL	6506.4 8722.0
DVR 5	Caloocan City R, PHL	8799.5
DVR 8	Navotas R, PHL	8762.3
DVR 9	Navotas R, PHL	8749.9
DVW 2	Manila R, PHL	8753.0
DVW 9	Quezon City R, PHL	6506.4
DVY 2	Manila R, PHL	4268.0 6402.0 8536.0
DVY 4	Malabon R, PHL	8737.5
DVZ 6	Malabon R, PHL	4282.0 8564.0
DVZ 9	Navotas R, PHL	4222.0 6332.5 8704.0
DXD 9	Davao R, PHL	4334.0 6332.5 8668.0 13002.0
DXF	Davao R, PHL	8600.0 12900.0 16962.5
DXS 3	General Santos City R, PHL	6509.5 8731.3
DYC 7	Bacolod R, PHL	8799.5
DYD 2	Cebu R, PHL	4326.0 6489.0 8652.0 12978.0
DYD 8	Bacolod R, PHL	8504.0
DYE .	Cebu R, PHL	6/4226.0 + 8443.0 + 13068.0 9/4226.0 + 6341.5 + 8680.0 + 13020.0
DYF 5	Negros R, PHL	8731.3
DYM	Cebu R, PHL	4338.0 6338.5 8676.0 13014.0
DYP	Cebu R, PHL	4310.0 8620.0 8793.3 12930.0 16902.5
DYS 9	Cebu R, PHL	4363.6 8771.6
DYT 3	Cebu R, PHL	8765.4
DYT 4	Bacolod R, PHL	8811.9
DYU 3	Roxas R, PHL	8796.4
DYV	Iloilo R, PHL	4316.0 4391.5 6474.0 8632.0 12948.0
DYV 9	Victorias R, PHL	6462.0 8616.0
DZA	Mandaluyong R, PHL	6408.0 8608.0 12816.0
DZB 3	Manila R, PHL	8790.2
DZB 7	Malabon R, PHL	4260.0 6390.0 8520.0
DZC 2	Navotas R, PHL	8753.0

DZC 4	Makati R, PHL	8447.0
DZC 7	Malabon R, PHL	8725.1
DZD	Antipolo R, PHL	4286.0 6429.0 8572.0 12858.0 17144.0
DZD 2	Navotas R, PHL	8793.3
DZD 3	Manila R, PHL	4270.0 6405.0 8540.0 12810.0 17080.0
DZD 4	Manila R, PHL	8771.6 13107.0
DZD 8	Manila R, PHL	8749.9
DZD 9	Quezon City R, PHL	4224.0 8439.0
DZE	Mandaluyong R, PHL	4268.0 6402.0 8564.0 12847.0 17128.0
DZE 4	Malabon R, PHL	6344.5 8762.3
DZF	Bacoor R, PHL	4274.0 6411.0 8545.0 8548.0 12821.5 17091.0
DZH/2	Manila R, PHL	-/4324.0 + 6486.0 + 8648.0 + 12972.0 2/6329.5 + 8664.0
DZI	Bacoor R, PHL	2080.0 4336.0 4382.2 6335.5 6518.8 8672.0 8768.5 13008.0 13159.7 22335.5
DZJ	Bulacan R, PHL	4330.0 4410.1 6326.5 6512.6 8604.3 8759.2 12906.2 12990.0 13100.8 16870.4 22323.5
DZJ 7	Makati R, PHL	6325.5 13008.0
DZK	Bulacan R, PHL	4296.0 6444.0 8592.0 12888.0 17184.0
DZK 3	Manila R, PHL	2638.0 4357.4 8722.0
DZL 9	Manila R, PHL	6509.5 8805.7
DZM	Bulacan R, PHL	4328.0 6492.0 8656.0 12984.0
DZM 6	Makati R, PHL	8799.5
DZM 9	Manila R, PHL	4139.5
DZN	Navotas R, PHL	6468.0 8584.0 12936.0 17168.0 22538.0
DZN 3	Navotas R, PHL	8737.5
DZN 4	Manila R, PHL	4348.0 8696.0 13044.0
DZN 9	Navotas R, PHL	8787.1
DZO	Bulacan R, PHL	4290.0 4382.2 6435.0 6518.8 8580.0 12870.0 13159.7 17160.0
DZO 9	Manila R, PHL	4346.0 8692.0 13038.0
DZP	Novaliches R, PHL	4278.0 6417.0 8556.0 12834.0 17112.0
DZQ 9	Navotas R, PHL	8725.1
DZR 2	Navotas R, PHL	8771.6
DZS 4	Manila R, PHL	4413.2 8774.7
DZU	Pasig R, PHL	4318.0 6477.0 8636.0 12954.0
DZV 7	Navotas R, PHL	4428.7
DZW	Manila R, PHL	4262.0 6393.0 8524.0 12786.0 17048.0 22438.0
DZY 7	Manila R, PHL	4256.0 6384.0 8512.0 12768.0 17024.0 22426.0
DZZ	Manila R, PHL	4288.0 4410.1 6432.0 6512.6 8576.0 8740.6 12869.5 13100.8 17152.0 22490.0
D3E/..	Luanda R, AGL	-/2601.0 + 4394.6 + 8722.0 + 8756.1 + 13107.0 + 17276.3 + 17338.3 + 22614.6 41/6369.0 51/8565.0 52/8694.0 61/12780.0 62/13023.0 71/17189.6 81/22330.5
D4A/.	Mindelo R, Sao Vicente, CPV	-/2439.0 + 2601.0 + 2645.0 + 4394.6 + 4410.1 + 8756.1 + 13119.4 + 13153.5 + 17301.1 + 17338.3 6/8469.0
D4B	Amilcar Cabral Air, Sal, CPV	**14508.0**
D4D	Praia R, Santiago, CPV	2341.0 2439.0 4292.0 4410.1 8469.0 8777.8 12700.0 13153.5 17301.1
D6B 4..	PTT Moroni, COM	403/**20338.0** + 20343.2 + 20346.0 404/20415.0 + 20420.0 408/20817.4 + **20820.5** + 20823.7
EAB	Bagur R, E	1740.0 2714.0
EAC	Tarifa R, E	1678.0 2610.0
EAD/..	Madrid R, E	-/4349.0 2/6382.2 3/8682.0 4/13065.0 5/17184.8 6/22446.0 44/12887.5 + 25775.0
EAE 220	MFA Madrid, E	**7522.2 7761.8 7767.8 8012.3 8101.7 9236.3 9341.3 15965.5** 17420.0 **17422.3**
EAF	Finisterre R, E	1698.0 2806.0
EAL	Las Palmas R, CNR	1750.0 2820.0
EAS	Cabo Penas R, E	1757.5 2649.0
EAT	Tenerife R, CNR	1720.0 2606.0
EAV	Cabo de la Nao R, E	1690.0 2799.0

EBA	SN Madrid, E	2841.0 3790.0 4261.0 6388.0 6408.5 **6861.0** 6930.0 **8474.0** 8528.5 *12657.0* 13059.0 14641.0 17018.0 **17529.0 20148.0**
EBB	SN Ferrol, E	6345.0
EBC	SN Cadiz, E	**2721.0** 6840.0 7926.0 12008.0
ECA 7	Madrid Meteo, E	*6830.0 6918.5*
ED./..	Madrid R, E	F/4235.5 F2/6330.0 F3/8473.0 F4/12673.5 F5/16942.8 F6/22384.0 F44/12691.0 G2/6337.0 G3/8457.0 G4/13056.0 G5/17175.2 Z/4269.5 Z2/6400.5 Z4/8618.0 Z5/12934.5 Z6/17064.8 Z7/22533.0
EHG 8	Guardia Civil Pamplona, E	**5008.0**
EHQ	Guardia Civil Valencia, E	**5378.5**
EHY	Madrid R, E	4372.9 4376.0 4388.4 6515.7 **8717.5** 8725.1 8728.2 8746.8 8765.4 **13082.0** 13100.8 13128.7 13175.2 13181.4 **17200.0** 17322.8 17335.2 17344.5 17350.7 22596.0 22682.8
EHY 78	PTT Madrid, E	19154.0 19160.3
EIP	Shannon Air, IRL	**8145.0 11440.0**
EJK	Valentia R, IRL	1827.0 2590.0 2614.0
EJM	Malin Head R, IRL	1841.0 2593.0
ELC	Monrovia R, LBR	8518.0 12709.0 16983.0 17146.4 22491.0
ELE 19	VoA Monrovia, LBR	**19991.0**
ELE 25	USLRC Harbel, LBR	**15940.0**
ELH	Harbel R, LBR	4240.0 4379.1 8600.0 8799.5
ELRB	Monrovia Air, LBR	**9252.2**
ELZ	Cape Palmas R, LBR	4323.6 8606.0 12995.3 16930.8 22416.0
EPD	Tehran Air, IRN	**5107.0 6955.0 10214.0 12065.0**
EPR 88	ICRC Tehran, IRN	**20996.5**
EQA	Abadan R, IRN	3247.0 3297.0 4376.0 17245.3
EQI	Abbas R, IRN	2506.0 4403.9 8731.3 17279.4 22443.0 22701.4
EQK	Khoramshahr R, IRN	2506.0 4379.1 17307.3 22443.0 22608.4
EQL	Anzali R, IRN	3247.5 4262.0 4366.7 6355.0 8534.0 8777.8 13101.0
EQM	Bushire R, IRN	3202.0 4349.0 4369.8 6425.0 8698.0 8746.8 12700.0 17319.7 22602.2
EQN	Khomeini R, IRN	2093.0 4349.0 4360.5 6425.0 8698.0 8805.7 12700.0 13193.8 22695.2
EQO	Nowshahr R, IRN	2065.0 4262.0 4388.4 6355.0 8534.0 8768.5 13101.0
EQQ	Khark R, IRN	3202.0 4349.0 4385.3 6425.0 8698.0 12700.0 13159.7
EQR	Lavan R, IRN	4416.3
EQY	IOEPC Mahshahr R, IRN	4293.5
EQZ	IORC Abadan R, IRN	2507.5 4428.7 8471.0 13141.1 16983.2 17285.6
ETC	Assab R, ETH	1656.0 1663.0 4363.6 6340.5 6518.8 8618.0 8731.3 12673.5
ETD 3	Addis Ababa Air, ETH	**3850.0 5187.2 6736.0 6912.0 9232.2 9873.5 10779.0 11112.5 12174.2**
ETK 4	EA Addis Ababa, ETH	11256.0
FAC 20	FA Metz, F	5308.5
FAC 80	FA Dijon, F	5308.5
FDC	FAF Metz, F	3179.0 3634.0 3664.0 **3814.0** 4614.5 5237.5 5748.0 6856.5 7311.5 7572.5 7805.5 9970.0
FDC 3	FAF Dijon, F	4042.0 9080.5
FDC 21	FAF Drachenbronn, F	3179.5 5036.5
FDC 22	FAF Contrexeville, F	5240.5 5446.5
FDE	FAF Villacoublay, F	6712.0
FDE 5	FAF Evreux, F	23254.0
FDG 2	FAF Mont-de-Marsan, F	3832.5 4914.5 5270.0 9829.0
FDG 7	FAF Toulouse, F	3337.5
FDG 21	FAF Cognac, F	3341.5 4562.6 6871.5 7514.5
FDI	FAF Aix, F	4864.5 5822.0 7816.5 8130.5
FDX	FAF Paris, F	9317.0

FDY	FAF Orleans, F	**2963.0** 3313.0 **3319.5 3676.4** 3687.5 **3798.0 4033.3 4466.5** 4596.0 4740.5 4877.5 5025.0 5028.0 5038.0 5090.0 5184.0 5236.0 5293.0 5342.0 5370.0 **5794.5** 5820.0 5870.0 6817.5 **6844.5** 7433.0 7513.0 **7521.1** 7659.5 7805.0 **7998.0** 8000.0 8050.0 8070.0 **8139.5** 8194.0 9177.0 **9177.2** 9295.0 **9341.0** 9367.0 **10308.0** 10419.5 10547.0 11160.0 11415.0 11445.0 11518.0 **12201.0 15667.0** 16277.5 **18111.0 19225.0** 20847.5 **20863.0 25012.0**
FFB	Boulogne-sur-Mer R, F	1694.0 1771.0 2747.0 3795.0
FFC	Arcachon R, F	1820.0 1862.0 2775.0 3722.0
FFD	Saint Denis R, REU	2600.0
FFH	Paris TS, F	2500.0
FFL ..	Saint Lys R, F	2/4328.0 3/6421.5 4/8522.5 6/12912.6 8/17027.0 9/22509.0 21/4366.7 22/4403.9 23/4369.8 24/4413.2 31/6518.8 41/8808.8 42/8793.3 43/8768.5 44/8802.6 61/13178.3 62/13187.6 63/13193.8 64/13165.9 81/17316.6 82/17332.1 83/17242.2 84/17288.7 85/17298.0 86/17245.3 91/22673.5 92/22605.3 93/22701.4 94/22689.0
FFM	Marseille R, F	1906.0 1939.0 2628.0 3795.0
FFO	Saint Nazaire R, F	1687.0 1722.0 2740.0 3795.0
FFP	Fort de France R, MRT	2545.0
FFR	Le Havre Signal R, F	1743.0
FFS .	Saint Lys R, F	4/8510.0 6/12678.0 8/17040.8 9/22318.5
FFT ..	Saint Lys R, F	4/8550.0 6/12655.5 8/16947.6 **21/4352.0 + 13056.0 31/6501.0 32/6499.5 41/8708.5 + 17417.0 43/8713.5 44/8717.5 61/13074.5 64/13097.5 81/17201.0 83/17222.5 91/22563.0 92/22575.5**
FFU	Brest - Le Conquet R, F	1673.0 1806.0 1876.0 2691.0 2726.0 3722.0
FIT 13	Marseille Prefecture, F	**5786.0**
FIT 35	Rennes Prefecture, F	**5788.0 7655.0**
FIT 75	MOI Paris, F	**5104.0 5134.5 5203.0 7403.0 7902.0**
FJA/..	Papeete R, Tahiti, OCE	-/1755.0 + 2620.0 + 2845.0 + 4403.9 + 8805.7 + 17245.3 8/8461.0 26/17040.8 41/4298.0
FJN	Dzaoudzi R, MYT	2663.0
FJP ..	Noumea R, NCL	2/2197.5 4/4366.7 6/6330.0 7/6506.4 8/8698.0 9/8731.3 23/12709.0 24/13113.2
FJY 2	DTRE Port-aux-Francais, KER	**26820.0**
FJY 3	DTRE Dumont d'Urville, ADL	**24457.8 24458.8**
FJY 4	Martin de Vivies Meteo, AMS	**11420.0 11550.0 14434.5**
FJY 4	Martin de Vivies R, AMS	2506.0 4287.0 4388.4 8690.0 8793.3 12722.0
FLR 20	FA Paris, F	4986.0
FPT 7	DTRE Paris, F	19164.3 **19169.0** 19170.5 19173.5 19176.7
FSB/..	INTERPOL Paris, F	**-/3714.0 + 3717.0 + 5208.0 + 6905.0 + 8045.0 + 12224.5 +** 15684.0 **52/3593.0 53/4632.5 54/6792.0 55/7532.0 57/10390.0 59/18190.0 61/19130.0 63/19405.0 71/10295.0**
FT. ..	DTRE Paris, F	M25/12253.0 O35/14357.5 T69/19693.0 + 19696.3 U86/20854.0 + 20860.2 + 20863.0
FUB	FN Paris, F	4400.8 4413.2 5265.0 8749.9 8802.6 **12701.0** 13110.1 13165.9 17245.3 17282.5 22639.4 22648.7
FUE	FN Brest, F	2150.0 4237.5 4246.0 **4334.0 4455.0 8590.0** 17065.0
FUF	FN Fort de France, MRT	4232.0 8478.5 13031.2 *14522.0* 16961.5 22390.0 22537.0
FUG	FN La Regine, F	**3859.0** 4313.0 6352.0 **7619.0** 8666.0 12875.0 **14723.5** 16876.0
FUJ	FN Noumea, NCL	4271.0 8657.0 12698.0 16958.0 22461.0
FUM	FN Papeete, Tahiti, OCE	6462.0 8625.0 12664.5 16959.0 17180.0 21845.0 22544.0 25329.0
FUN	FN Lorient, F	3330.0
FUO	FN Toulon, F	2607.0 4345.0 4390.0 **12885.0**
FUV	FN Jibuti, DJI	8568.0 13042.5 16904.6 22447.0
FUX	FN Le Port, REU	4334.0 8475.5 12691.0 16915.0 17062.0
FVA 80	Rosny s. Bois Gendarmerie, F	4061.5 5779.0 7576.0 14612.0 18046.0
FVJ 20	St. Herblain Gendarmerie, F	3780.0
FVZ 99	St. Pierre Gendarmerie, SPM	14612.0 18046.0
FZM 62	DIPLO Noumea, NCL	**16106.0**

FZR 81	Saint Denis Meteo, REU	*8176.0*
FZS 63	Saint Denis Meteo, REU	***16335.0***
GCC	Cullercoats R, G	1838.0 2719.0 2828.0 **3608.3** 3750.0
GF. 2.	Bracknell Meteo, G	A21/*3289.5* A22/*4610.0* A23/*8040.0* A24/*11086.5* A25/*14582.5* E21/*4782.0* E22/*9203.0* E23/*14436.0* E24/*18261.0* E25/*2618.5* L22/**6835.0** L23/**10551.3** L24/**14356.0** L25/**18230.0** L26/**4489.0**
GFW	RAF Akrotiri, CYP	4730.0 11234.0 18018.0
GHD	Gallan Head R, G	1856.0 1866.0 2667.0 **3607.8**
GHH	Jamestown Meteo, SHN	**6824.0 9044.0 17413.8 23997.5**
GK. ..	Portishead R, G	A2/4286.0 A3/6368.9 A4/8545.9 A5/12822.0 A6/17098.4 A7/22467.0 B2/4274.0 B3/6379.5 B4/8559.5 B5/12835.4 B6/17113.0 B7/22448.7 C2/4251.5 C3/6407.5 C4/8516.0 C5/13019.8 C6/16954.4 C7/22407.3 D2/4256.0 D3/6428.5 D4/8569.0 D5/12788.5 D6/16974.6 D7/22432.0 E2/**4350.5** E3/**6495.0** E4/**8705.5 + 17411.0** E5/**13072.0** E6/**17198.0** E7/**22562.0** E8/**25390.1** F5/12815.0 G2/4267.9 G3/6469.3 G4/8591.5 G5/12790.0 G6/17072.0 G7/22503.0 H2/4314.5 H3/6470.8 H4/8604.0 H5/12791.5 H6/17092.0 H7/22525.5 I2/4317.5 I3/6472.3 I4/8606.0 I5/12858.0 I6/17151.2 I7/22528.5 J2/4326.5 J3/6477.5 J4/8684.0 J5/12871.5 J6/16918.8 J7/22545.0 K2/4336.0 K3/6342.0 K4/8552.0 K5/13006.5 K6/17167.5 K7/22494.0 L5/**4353.0** L6/**17211.5** M2/4316.0 M3/6397.0 M4/8581.6 M5/12714.0 M6/17136.8 M7/22527.0 N2/4314.9 N3/6395.9 N4/8580.5 N5/12712.9 N6/17135.7 N7/22525.9 O2/4316.9 O4/8582.5 O5/12714.9 O6/**17137.7** O7/22527.9 P2/**4353.5** P3/**6500.0** P4/**8711.0** P5/**13085.0** P6/**17215.0** P7/**22578.0** Q2/**4356.5** Q3/**6505.0** Q4/**8718.0** Q5/**13099.0** Q6/**17231.0** Q7/**22594.0** T20/4385.3 T22/4360.5 T26/4372.9 T42/8722.0 T51/13100.8 T52/13103.9 T56/13116.3 T62/17236.0 T66/17248.4 T76/22611.5 U46/8765.4 U49/8774.7 U61/17263.9 U65/17276.3 U68/17285.6 U70/22654.9 U72/22630.1 U74/22636.3 V26/4434.9 V42/8784.0 V46/8796.4 V50/13190.7 V54/13172.1 V58/13184.5 V63/17301.1 V77/22676.6 V79/22682.8 W41/8811.9 W52/13196.9 W60/17353.8 W62/17329.0 W67/17344.5 X70/22716.9 Y5/**13095.0** Y6/**17218.0** Y7/**22590.0**
GKR	Wick R, G	**1672.0** 1706.0 1827.0 2604.0 2625.0 2705.0 3610.0
GKX ..	Portishead Air, G	51/12133.0 63/18210.0 71/21765.0
GKZ	Humber R, G	1869.0 2684.0 **3607.3** 3738.0 3778.0
GLD	Land's End R, G	1706.0 1841.0 **2696.7** 2719.0 2782.0
GND	Stonehaven R, G	1856.0 1946.0 2691.0 2779.0 **3615.7** 3617.0 3666.0
GNF	North Foreland R, G	1848.0 2698.0 2733.0
GNI	Niton R, G	1834.0 2628.0 2810.0 **3517.0**
GNK	Norwick R, G	1824.0 **2832.7**
GPA .	Portishead R, G	**2/13567.5 3/22973.0 5/13360.7 6/17426.0 7/22900.0**
GPK	Portpatrick R, G	1883.0 2607.0 3610.0
GXH	RN/USN Thurso, G	3724.0 4001.0 7504.0 12691.0
GXQ	BA London, G	**4500.0 4923.0 5102.0 7474.0 7680.0 9147.0 10890.0 11016.4 11412.0 14381.0 14807.0 14845.0 15945.0 18410.0 18905.0**
GXW	RN Portland, G	**3187.3**
GY./.	RN London, G	A/2892.3 + **4163.0** + **4210.3** + **4258.3** + **4300.3** + **4480.3** + **5866.8** + **6336.3** + **6413.8** + **7657.5** + **7792.0** + *8334.0* + **8613.3** + **8672.8** + **8760.2** + **9130.0** + **11010.0** + **12772.5** + **12807.8** + **12897.5** + **12905.9** + **13942.5** + **14634.0** + *16115.0* + **16918.2** + *16938.6* + **17030.6** + **18061.0** + **18861.0** + **19860.0** + **22422.0** + **22454.3** + **22550.4** + **23030.0** + **25012.5** + **25447.0** A1/*2813.6* B/82.8 C2/4300.2 C3/6413.7 C4/8613.2 C5/12807.8 C6/17030.4 C7/22454.2 D/12115.0 D3/*6436.6* E/**15901.0** + **18040.0**

GYU	RN Gibraltar, GIB	4221.3 4366.7 6371.2 **6373.0** 6509.5 **7770.0** 8625.2 **8627.0** 8737.5 **10346.0** 12824.2 **12825.8** 13134.9 **13473.0 15737.0 16988.8** 17263.9 18506.0 22630.1
GZZ ..	RN London, G	2/*4247.6* 6/*3436.6* 40/*8494.6* 44/*12741.6*
HAR/6	Budapest R, HNG	-/4239.0 + 4241.0 + 4331.0 + 4385.3 + 4403.9 + 4422.5 + 4431.8 + 6375.0 + 6390.0 + 6506.4 + 6512.6 + 6518.8 + 8451.0 + 8458.0 + 8466.0 + 8616.0 + 8749.9 + 8756.1 + 8784.0 + 8793.3 + 8802.6 + 12780.0 + 12963.0 + 12972.0 + 13103.9 + 13122.5 + 13141.1 + 13184.5 + 16938.0 + 17128.0 + 17130.0 + 17239.1 + 17282.5 + 17313.5 + 17329.0 + 22390.0 + 22500.0 + 22596.0 + 22599.1 + 22630.1 + 22710.7 6/2581.6
HAR	HN Budapest, HNG	**4473.8**
HBC 88	ICRC Geneva, SUI	**13915.0 13966.5 20753.0 20754.4 20996.5 27999.3 29702.5**
HBD 20	MFA Berne, SUI	**5767.5 7653.7 7668.7 9169.3 10956.2 10968.0 10973.5 13571.0 16111.1 16120.0 18263.3 18270.5 18273.5 18279.5 20590.3 20596.0 20598.0 20603.2 20605.3 20609.5 22964.5 22969.0 22975.5 25223.0 25228.5**
HBD 22	Swiss E Delhi, IND	**18279.5**
HBD 30	Swiss E Lagos, NIG	**20605.3**
HBD 31	Swiss E Buenos Aires, ARG	**22969.0 22975.5**
HBD 32	Swiss E Brasilia, B	**20605.3**
HBD 38	Swiss E Oslo, NOR	**10968.0**
HBD 39	Swiss E Nairobi, KEN	**18273.5**
HBD 41	Swiss E Pretoria, AFS	**22969.0**
HBD 46	Swiss E Habana, CUB	**18270.5 20590.3 20605.3**
HBD 54	Swiss E Rome, I	**7668.7 9169.3**
HBD 59	Swiss E Ankara, TUR	**16111.1**
HBD 61	Swiss E Cairo, EGY	**20605.3**
HBD 66	Swiss E Ottawa, ONT, CAN	**22975.5**
HBD 68	Swiss E Ciudad de Guatemala, GTM	**25228.5**
HBD 71	Swiss E Tel Aviv, ISR	**20605.3**
HBG	Nyon TS, SUI	75.0
HBO 58	Berne Air, SUI	18480.0
HBT 29	Berne Air, SUI	9211.0
HCG	Guayaquil R, EQA	4237.0 4388.4 6456.0 6509.5 8474.0 8731.3 12711.0 13119.4 16948.0
HDN	EN Quito, EQA	**17517.0** 18990.0 **20531.5 23431.5**
HD 210A	Guayaquil TS, EQA	3810.0 5000.0 7600.0
HEB ..	Berne R, SUI	13/13103.9 14/4379.1 17/17263.9 18/8784.0 23/13181.4 24/4428.7 27/17276.3 28/8790.2 33/13190.7 34/4422.5 37/17325.9 38/8811.9 43/13128.7 47/17298.0 48/8725.1 52/22636.3 62/22692.1 72/22654.9
HEC ..	Berne R, SUI	**13/13080.0 14/4352.5 17/17205.0 18/8709.0 23/13092.5 24/4355.5 27/17221.0 28/8714.0 38/8717.5 52/22566.5 62/22586.0**
HEE ..	Berne Air, SUI	60/13205.0 81/18023.0 91/23285.0
HEK ..	Berne Air, SUI	7/20035.0 66/17415.0
HEO 55	Berne Air, SUI	25500.0
HET 77	Berne Air, SUI	20870.0
HGG 21	PTT Budapest, HNG	**9109.0**
HGG 31	MTI Budapest, HNG	**9114.0**
HGH 29	MTI Budapest, HNG	**10911.0**
HGM 36	MTI Budapest, HNG	**15670.0**
HGO 24	MTI Budapest, HNG	**17468.0**
HGX 21	MFA Budapest, HNG	**6761.3 9048.0 9342.0 10325.0 10398.0 10401.2 12262.5 13876.2 14815.4 15675.8 16453.5 19801.5 20650.0**
HGX 23	Hungarian E Rome, I	**12262.8**
HGX 29	Hungarian E Paris, F	**10401.2**

HGX 36	Hungarian E Bangkok, THA	**9342.0**
HGX 38	Hungarian E London, G	**18400.0**
HGX 39	Hungarian E Delhi, IND	**23264.0**
HGX 41	Hungarian E Damascus, SYR	**6761.3**
HGX 42	Hungarian E Tehran, IRN	**18400.0**
HGX 44	Hungarian E Baghdad, IRQ	**13875.8**
HGX 45	Hungarian E Islamabad, PAK	**19398.8**
HGX 50	Hungarian E Jakarta, INS	**23360.2**
HGX 56	Hungarian E Cairo, EGY	**13875.8**
HGX 59	Hungarian E Dar es S., TZA	**20008.0**
HIA	Sto. Domingo Pilot R, DOM	2638.0 8642.0 13087.5
HIW 7	Boca Chica Pilot R, DOM	8641.0
HIW 8	Puerto Plata Pilot R, DOM	8641.0
HKB	Barranquilla R, CLM	2046.0 2053.0 4277.0 4372.9 6463.5 8700.4 8796.4 13087.5 13107.0 17004.0 17276.3
HKC	Buenaventura R, CLM	2049.0 3282.0 4325.0 4372.9 6386.5 8574.0 8796.4 12853.5 13107.0 17045.6 17276.3
HLA	Taejon TS, KOR	2500.0 5000.0
HLC	Inchon R, KOR	2050.0 2157.5 2284.0 2590.0
HLF	Soul R, KOR	4273.0 6344.0 12916.5 17079.0 22395.0
HLG	Soul R, KOR	4308.0 6451.0 8473.0 12935.0 17118.0 22482.0
HLJ	Soul R, KOR	8484.0 8497.0 12727.0 16910.0
HLK	Gangreung R, KOR	2050.0 2836.0 3375.0
HLL .	Soul Meteo, KOR	2/5810.0 8/*5857.5* 3/11620.0 6/**11645.0**
HLM	Mokp'o R, KOR	2357.0
HLN	Kunsan R, KOR	2043.0 2157.5 2507.0
HLO	Soul R, KOR	8577.0 12843.0 16990.0
HLP	Pusan R, KOR	2050.0 2332.5 2433.0 2460.0 2699.0 3234.0 4235.0
HLS	Soul R, KOR	4357.4 4413.2 6509.5 6518.8 8725.1 8799.5 13138.0 13187.6 17335.2 17344.5 22620.0 22661.1
HLU	Taeha-dong R, Ullung do Island, KOR	1920.0 2009.0
HLW/.	Soul R, KOR	-/8636.0 + 13005.5 + 17130.0 2/12923.0 3/12712.0
HLX	Soul R, KOR	12735.0
HLY	Yosu R, KOR	2044.0 2191.0 2560.0
HMF ..	KCNA Pyongyang, KRE	21/11432.0 26/15633.0 32/**14568.0** 35/**13780.0** + **27560.0** 36/***13580.0*** 42/**12175.0** 45/**10524.0** 46/**10580.0** 49/***11536.0*** + ***23072.0*** 52/**11475.0** + *11475.7* 55/11430.0 57/**14452.0** 84/**9395.0** 85/**8020.0** 86/**8152.0** 88/*7363.7* + **7364.0**
HMG 62	KCNA Pyongyang, KRE	*11411.7*
HML	Namp'o R, KRE	4300.0
HMP 11	Pyongyang, KRE	3156.7 6800.0
HMX 33	PTT Pyongyang, KRE	**8175.0**
HMY ..	PTT Pyongyang, KRE	47/17397.0 56/**10762.8**
HMZ	Pyongyang R, KRE	8664.0 22429.0
HOR 24	REFPA Panama R, PNR	4136.3 8281.2 12428.0 16572.0
HPP/20	Panama R, PNR	-/4275.0 + 4338.5 + 6423.5 + 6479.0 + 8589.0 + 8602.5 12699.0 + 13049.5 + **13075.0** + **16869.0** + **17027.5** + **17213.5** + 22454.0 + 22499.0 20/2507.7 + 2740.0 + 4357.4 + 4428.7 + 6509.5 + 8768.5 + 8774.7 + 13110.1 + 13196.9 + 17276.3 + 17298.0 + 22602.2 + 22617.7
HPQ 21	Panama Port R, PNR	2638.0 2738.0 4139.5 4357.4
HSA ..	Bangkok R, THA	2/8686.0 3/12800.0 4/8573.5 6/2686.0 7/2746.0 8/4357.4 20/6518.8 21/8759.2 23/4348.5
HSC 62	Bangkok Port R, THA	8466.0
HSD	Bangkok Air, THA	**3894.0 8005.5 10654.3**
HSF 212WSN	Thai E Wash., DC, USA	**20827.1**
HSP .	Phuket R, THA	3/2629.0 4/2719.0 5/2821.0
HSW 6.	Bangkok Meteo, THA	61/*17519.0* + **17521.0** 62/**10299.0** 63/**10169.0** 64/***7395.0***
HSZ	Bangkok TS, THA	9109.4

HVH	PTT Vatican City, CVA	**10754.1**
HWN	FN Paris, F	4232.0 4295.0 6348.0 8453.0 12741.0 17180.0 22342.5
HXP	Saint Denis Meteo, REU	5945.0 10432.0
HZG	Dammam R, ARS	1780.0 1825.0 4253.5 4278.0 4309.0 4372.9 4382.2 6364.5 6387.0 6466.0 6506.4 6512.6 8484.5 8556.5 8651.5 8740.6 8749.9 12658.5 12752.5 12792.0 13103.9 13169.0 16860.0 16953.0 17062.0 17236.0 17257.7 22338.2 22427.0 22484.0 22661.1 22689.0
HZH	Jeddah R, ARS	1726.0 1856.0
HZJ	Jeddah Air, ARS	**3999.0 5733.0 13752.0 14370.5**
HZN/..	Jeddah Meteo, ARS	-/*3560.0*+**3562.0**+*5452.0*+**5740.0**+*10296.0*+**12245.0** 46/**4570.0** 47/**7625.0** 48/**10215.0** 49/**17590.0** 50/**23370.0**
HZY	ARAMCO Ras Tanura R, ARS	8480.0 12811.3 16960.0
H4H .	Honiara R, SLM	4/2167.0 8/12700.0
IAM	Rome TS, I	5000.0
IAR/..	Rome R, I	-/4356.5+4360.5+4416.3+4425.6+6509.5+6515.7+8705.0+**8706.5**+8707.5+8759.2+8774.7+8777.8+8796.4+13116.3+13138.0+13153.5+13190.7+17211.0+17239.1+17279.4+17304.2+22627.0+22664.2+22707.6 2/22376.0 3/13015.5 4/4320.0 6/6409.5 7/16895.5 8/8670.0 22/22372.5 23/13011.0 24/4292.0 26/6418.0 27/17060.8 28/8530.0 32/22378.0 33/12996.0 37/17005.0 38/8656.0
IAR 76	ANSA Rome, I	22892.1 **22892.5**
IBA	USN Napoli, I	**5368.0 8017.5**
IBF	Torino TS, I	5000.0
ICB	Genova R, I	1667.0 2642.0 2722.0 4235.0 4379.1 4382.2 6425.0 8649.5 **8714.5** 8734.4 8787.1 12978.0 13113.2 13131.8 16879.0 16881.0 16970.0 17182.0 17230.5 17254.6 17273.2 22642.5
ICP	Trapani R, I	1737.0 1848.0
ICS	La Spezia, I	4217.0
ICZ	Venezia R, I	1680.0 2698.0
IDC	Cagliari R, I	1722.0 2683.0
IDF	Messina R, I	2789.0
IDQ	IN Rome, I	118.5 2291.0 2725.0 4280.0 6390.0 **7854.0** 8486.0
IDR/.	IN Rome, I	-/16394.0+18827.0 2/4355.5 3/6505.0 4/8718.0 5/13086.0 6/17219.5 8/2815.0
IEA 20	IA Rome, I	7366.0 7598.0
IEN 21	IA Padova, I	**6747.0 6992.0**
IEN 36	IA Gorizia, I	**6747.0**
IER 20	IFG Rome, I	**5160.0 6465.0 8110.0**
ILI	IAF Brindisi, I	5685.0
IMB ..	Rome Meteo, I	1/**3172.5** 2/**5887.5** 3/**11453.0** 51/*4777.5* 55/*8146.6* 56/*13597.4*
IPA	Ancona R, I	2656.0
IPB	Bari R, I	1771.0 2579.0
IPC	Crotone R, I	1715.0 2663.0
IPD	Civitavecchia R, I	1888.0 2710.0 3747.0
IPL	Livorno R, I	1925.0 2591.0
IPP	Palermo R, I	1705.0
IPR 24	Bologna Police, I	**8171.5**
IPR 34	Genova Police, I	**5810.0**
IPR 44	Rome Police, I	**5810.0**
IQA	Augusta R, I	1643.0 2628.0
IQH	Napoli R, I	1675.0 2635.0 3735.0
IQM	Lampedusa R, I	1876.0
IQP	S. Benedetto del Tronto R, I	1855.0
IQQ	Mazara del Vallo R, I	1883.0 2211.0 2600.0
IQX	Trieste R, I	2624.0 4296.0 6418.0 8502.0 8679.0 12975.0 17084.0
IRF .0	ANSA Rome, I	20/**8047.5** 50/**8030.0** 80/**8062.0**
IRJ ..	ANSA Rome, I	21/**12108.0** 50/12082.5+**12083.0**

IRM	CIRM Rome, I	4342.0 6365.0 8685.0 12748.0 12760.0 17105.0 22525.0
IRO 30	ANSA Rome, I	**16066.8**
IRR 24	ITALCABLE Rome, I	19475.0
IRS 23	ANSA Rome, I	**20372.0**
ISX ..	ANSA Rome, I	20/**20085.0** 22/**22955.0** 24/**24790.0** 25/**25271.5** 35/**13487.5** 56/**15693.5**
IUV 81	INTERPOL Rome, I	**8045.0**
IZN	Porto Torres R, I	1806.0
JAB 35	KYODO Tokyo, J	**5097.5**
JAE 50	JIJI Tokyo, J	**10200.0**
JAE 58	KYODO Tokyo, J	**8175.0**
JAG 30	PL Tokyo, J	**10710.0**
JAG 50	KYODO Tokyo, J	**10795.0**
JAL ..	KYODO Tokyo, J	32/**12070.0** 44/**14547.5** 54/**14595.0** 82/**12275.0**
JAM 33	DIS Tokyo, J	**13765.0**
JAM 55	KYODO Tokyo, J	**15945.0**
JAQ ..	KYODO Tokyo, J	57/**17597.5** 66/*16230.0*
JAX 78	DIS Tokyo, J	**18988.0**
JBF 40	KDD Tokyo, J	10390.0
JBO	Tokyo R, J	4376.0 4410.1 4431.8 4434.9 8746.8 8753.0 8759.2 8777.8 13119.4 13122.5 13134.9 13153.5 17242.2 17248.4 17257.7 17329.0 22617.7 22676.6 22704.5 22716.9
JCK	Kobe R, J	4332.5
JCS	Choshi R, J	4349.0 6467.0 8653.6 12826.5 17112.6 **17200.5** 22419.0
JCT	Choshi R, J	4225.0 8686.0 12687.0 17166.5 22386.0
JCU	Choshi R, J	6485.0 8479.0 12878.0 17043.2 22463.0
JCX	Naha R, J	6470.0 12667.5
JDB	Nagasaki R, J	13063,0 16877.5
JDC	Choshi R, J	8647.5 13054.0 16998.5
JFA	Matsudo F R, J	4304.0 6342.0 6388.0 8547.5 8628.0 12788.0 12847.5 17081.6 17101.5 22524.0 25065.0
JFM	Muroto F R, J	12704.5
JGC	Yokohama R, J	17141.6 22366.5
JJC	Tokyo R, J	*4316.0 8467.5 12745.5 16971.0 17069.5 22542.0*
JJD	RRL Tokyo, J	10415.0 15950.0
JJF	JN Tokyo, J	12948.0
JJY	Tokyo TS, J	2500.0 5000.0 8000.0 10000.0 15000.0
JK. .	JIJI Tokyo, J	A2/*6820.0* A3/*9260.0* B4/*9135.0* E6/*9410.5*
JM./..	Tokyo Meteo, J	B40/*4902.0* C6/17029.0 G2/**5102.5** G3/**7402.5** G4/**14880.0** G5/**19529.0** G6/**23972.0** H/*3622.5* H2/*7305.0* H3/*9970.0* H4/*13597.0* H5/*18220.0* H6/*23522.9* J/*3365.0* J2/*5405.0* J3/*9438.0* J4/*14692.5* J5/*18441.2*
JNA	JN Tokyo, J	4276.0 4305.5 8492.0 8571.0 12658.0 12942.0 16911.0 17052.5 22326.0 22398.0
JNE	Hiroshima R, J	17141.6 22366.5
JO.	Nagasaki R, J	R/6457.5 + 8523.4 + 13008.0 + 17093.0 + 22409.0 S/4328.0 + 6491.5 + 8437.0 + 13069.5 + 16933.2 + 22396.0 U/8463.0 + 12673.5 + 16883.0 + 22440.0
JPA ..	INTERPOL Tokyo, J	24/**18756.0** 59/**19130.0**
JTD 29	MONTSAME Ulan Bator, MNG	**10337.0**
JTF 23	MFA Ulan Bator, MNG	**18667.5**
JWT	NN Stavanger, NOR	4562.5 11182.0
JYF .	PETRA Amman, JOR	2/**14560.0** 4/**9463.0** 6/**5055.0**
JYJ	RJ Amman, JOR	9003.0 13225.0
JYN 41	Amman Meteo, JOR	**10965.0**
JYO	Aqaba R, JOR	2512.5 2612.5 4326.5 4416.3 4431.8 6390.0 6479.0 8528.0 8728.2 12725.0 13159.7

J2A/.	Jibuti R, DJI	-/1813.0+2586.0+4410.1+8799.5+13128.7 4/4262.0 6/6348.0 8/8510.0+8682.0 9/12728.0
J5M	Bissau R, GNB	2642.0 4394.6 4434.9 8722.0 8756.1 13107.0 17276.3 17338.3
KCC	Corpus Christi R, TX, USA	2538.0
KFS	San Francisco R, CA, USA	2037.5 2061.5 4228.0 4274.0 4350.0 6348.0 6365.5 8444.5 8445.0 8558.4 8705.0 8706.0 12695.5 12844.5 17026.0 17184.8 17198.5 22425.0 22515.0
KGN	Delcambre R, LA, USA	2506.0 4366.7
KKN 39	Miami, FL, USA	4956.5 13387.0 17413.5
KKN 44	USE Monrovia, LBR	4886.0 7652.0 11474.0 17404.0 17426.0 23425.0
KKN 50	MFA Washington, DC, USA	6925.0 10637.0 12022.5 16363.0 18525.0 23975.0
KLB	Seattle R, WA, USA	2063.0 4348.5 6410.7 6411.0 8546.1 8582.5 12907.0 12917.0 17007.5 22539.0
KLC	Galveston R, TX, USA	2063.0 4223.0 4256.0 6338.5 6369.0 8508.0 8659.5 8666.0 8709.0 12904.5 13038.0 16871.3 16939.8 22338.0 22467.0
KMI	Dixon R, CA, USA	2450.0 2506.0 4357.4 4403.9 4407.0 **8087.0** 8728.2 8743.7 8759.2 8784.0 13100.8 13103.9 13107.0 13187.6 13190.7 17236.0 17239.1 17279.4 17304.2 22636.3 22664.2 22679.7 22704.5
KNY 23	Czech E Wash., DC, USA	**19460.7**
KNY 27	Swiss E Wash., DC, USA	**20598.0 22964.5**
KNY 29	Egyptian E Wash., DC, USA	**11241.7**
KPH	San Francisco R, CA, USA	2045.0 4247.0 6477.5 6488.5 6500.5 8618.0 8642.0 12808.5 13002.0 13077.5 17016.5 17016.8 17088.8 **17203.5** 22477.5 22479.0 22557.0 **22567.5** 22568.0
KQP	Galveston R, TX, USA	2450.0 2530.0
KRH 5.	USE London, G	50/5426.0+7724.0+11142.0+13815.0+16458.0+ 20568.0 51/**4863.5**+**6786.5**+**11636.5**+**15593.0**+ **15597.0**
KUP 65	Majuro R, MRL	2616.0 2724.0
KUQ	Pago Pago R, SMA	2638.0 2845.0 4379.1 6361.0 8585.0 8734.4 12871.5 13196.9 17347.6
KUQ 23	Swains Island R, SMA	2845.0
KVM 70	Honolulu Meteo, HWA	*9982.5 11090.0 16135.0 23331.5*
KWL 90	USE Manila, PHL	5443.0 7662.0 10464.0 12210.0 14616.0 17552.0 24827.0
KWS 78	USE Athens, GRC	3186.0 4910.0 7627.0 10255.0 14360.0 18351.0 23642.0
KWX	NWS Lewes, DE, USA	*4223.0*
LBL 1	Norwegian UNIFIL Beirut, LBN	13543.0 **16103.6 20092.6**
LF./..	Rogaland R, NOR	B/8678.0 B2/**8683.5** C/**12682.5** F/17165.6 G/22473.0 I/12961.5 J/12876.0 L/22396.0 L2/8718.9 L3/8725.1 L4/8740.6 L5/8743.7 L6/8746.8 L7/8749.9 L8/8756.1 L9/8771.6 L20/8787.1 L21/8793.3 L22/8799.5 L23/8802.6 L24/8805.7 L30/13107.0 L31/13110.1 L32/13113.2 L33/13128.7 L34/13131.8 L35/13138.0 L36/13141.1 L37/13150.4 L38/13153.5 L39/13156.6 L40/13165.9 L41/13169.0 L42/13175.2 L43/13178.3 L44/13184.5 L45/13193.8 N/8527.5 N2/17232.9 N3/17239.1 N4/17242.2 N5/17245.3 N6/17251.5 N7/17254.6 N8/17260.8 N9/17270.1 N20/17273.2 N21/17282.5 N22/17285.6 N23/17288.7 N24/17291.8 N25/17298.0 N26/17313.5 N27/17319.7 N28/17338.3 N29/17356.9 N30/22599.1 N31/22602.2 N32/22617.7 N33/22627.0 N34/22633.2 N35/22639.4 N36/22642.5 N37/22648.7 N38/22679.7 N39/22685.9 N40/22695.2 N41/22698.3 N42/22704.5 N43/22707.6 N44/22713.8 N45//22716.9 R/25308.0 T/16952.4 U/6467.0 W/4325.0 X/16928.4 Z/25382.5 Z2/**26163.3**
LFO	Oerlandet R, NOR	1743.0 2635.0 3627.9
LGA	Alesund R, NOR	1694.0 1722.0 2663.0
LGB/2	Rogaland R, NOR	-/**2879.5**+8574.0 2/**8707.0**
LGD	Oerlandet R, NOR	1757.0 2670.0

LGF 2	Rogaland R, NOR	**1646.0**
LGG/.	Rogaland R, NOR	-/22425.0 **2/22563.5 3/22587.0**
LGH	Harstad R, NOR	1736.0 1750.0 2635.0 2649.0 2663.0
LGI	Hammerfest R, NOR	1722.0 1743.0 1803.0 2695.0 3652.0
LGJ/.	Rogaland R, NOR	-/12727.5 **3/13081.0 4/13097.0**
LGL	Floroe R, NOR	1757.0 2649.0 3645.0
LGN	Bergen R, NOR	1743.0 2666.9 2670.0 3631.0
LGN ..	Rogaland R, NOR	2/4357.4 3/4363.6 4/4376.0 5/4382.2 6/4400.8 7/4410.1 8/4416.3 9/4428.7 20/4431.8 21/4434.9 30/6512.6 31/6518.8
LGP	Bodoe R, NOR	2642.0 2656.0 2695.0
LGQ	Rogaland R, NOR	1729.0 2652.9 2656.0 3638.0
LGS	Svalbard R, Spitsbergen, NOR	1694.0 1736.0 3645.0
LGT	Tjoeme R, NOR	1736.0 2663.0
LGU/2	Rogaland R, NOR	-/6432.0 **2/6498.0**
LGV	Vardoe R, NOR	1729.0 2642.0 2656.0 2670.0 3631.0
LGW/.	Rogaland R, NOR	-/4241.0 2/4351.0 **3/4352.5**
LGX/.	Rogaland R, NOR	-/17074.4 **2/17199.5 3/17223.0**
LGZ	Farsund R, NOR	1750.0 2635.0 2638.9 2642.0 3641.9
LJB	Bjoernoeya R, Bear I., NOR	1757.0
LMJ	Jan Mayen R, NOR	1722.0
LOK	AN Laurie I., Orcadas, ATA	*2422.5*
LOL	AN Buenos Aires, ARG	4856.0 8030.0 **15866.5 16091.0** 17180.0 **18602.5** 18990.0 **23391.5**
LOL .	AN Buenos Aires TS, ARG	1/5000.0 2/10000.0 3/15000.0
LOR	AN Puerto Belgrano, ARG	**6348.0 6770.0 11070.0 19438.5**
LPB .	Corrientes R, ARG	5/4428.7 9/8746.8
LPC ..	Ushuaia R, ARG	5/2100.0 27/4385.3 34/8753.0 42/13190.7 45/4225.0 46/8449.0 50/13065.0
LPD	General Pacheco R, ARG	25/17196.5 28/22513.5 34/25130.5 46/17045.6 62/4262.0 68/4268.0 76/12763.5 86/8646.0 88/12988.5 91/22419.0
LPG ..	Rio Gallegos R, ARG	5/2103.5 44/4400.8 87/8765.4
LPL/..	General Pacheco R, ARG	-/13165.9 + 17285.6 3/8759.2 4/13159.7 5/17232.9 6/2086.0 21/22605.3 30/6512.6 33/4394.6
LPM ..	Mar del Plata R, ARG	5/2093.0 44/4410.1 51/4388.4 97/8749.9
LPO ..	Puerto Deseado R, ARG	26/2082.5 44/4379.1 87/8787.1
LPW ..	Bahia Blanca R, ARG	6/2079.0 35/6506.4 45/4372.9 97/8771.6
LPZ ..	Trelew R, ARG	28/4434.9 33/2090.9 87/8740.6
LQB 9	Buenos Aires TS, ARG	8168.0
LQB 9	DyN Buenos Aires, ARG	*8167.0*
LQB 54	TELAM Buenos Aires, ARG	**18421.0**
LQC 28	Buenos Aires TS, ARG	17551.5
LQZ 67	AP Buenos Aires, ARG	*17672.0*
LRB 39	TELAM Buenos Aires, ARG	**10893.5**
LRB 55	R Rivadavia feeder, ARG	4588.0
LRB 72	Buenos Aires Meteo, ARG	*10720.0*
LRB 75	REUTER Buenos Aires, ARG	*13753.5*
LRB 79	AP Buenos Aires, ARG	*6874.0*
LRB 83	TELAM Buenos Aires, ARG	**3266.7**
LRB 91	R Rivadavia feeder, ARG	9115.0
LRB 218	Buenos Aires, ARG	**13585.5**
LRN 2	AP Buenos Aires, ARG	*10677.0*
LRN ..	DyN Buenos Aires, ARG	62/2279.0 **85/7954.5**
LRO 2	TELAM Buenos Aires, ARG	**4004.5**
LRO 9	DyN Buenos Aires, ARG	**4549.5**
LRO 23	NA Buenos Aires, ARG	**3840.0**
LRO 26	AP Buenos Aires, ARG	*5777.5*
LRO 48	NA Buenos Aires, ARG	*7931.0*
LRO 64	DyN Buenos Aires, ARG	*9242.0*
LRO 69	Buenos Aires Meteo, ARG	*5185.0*
LRO 81	TELAM Buenos Aires, ARG	**13540.0**
LRO 83	REUTER Buenos Aires, ARG	*18433.0*
LRO 84	Buenos Aires Meteo, ARG	*18093.0*
LRO 89	REUTER Buenos Aires, ARG	*21770.0*

LSA/.	Boca R, ARG	-/13057.0+13063.5+16870.5+17191.0+22547.0+22555.5+25160.0+25197.0 2/4334.0 3/6460.0 4/8457.0 5/12709.0 6/17160.8 7/22346.5
LSA 600	AP Buenos Aires, ARG	*20736.0*
LST/9	YPF Buenos Aires R, ARG	-/4255.0+12706.5+16940.8 9/8702.0
LSU 5	YPF Com. Rivadavia R, ARG	8702.0
LZA 2	PTT Sofia, BUL	**8055.0**
LZA 8	Sofia Meteo, BUL	**4813.0**
LZB	BTA Sofia, BUL	**7460.0**
LZC 3	Sofia, BUL	**19040.0**
LZF .	Sofia Meteo, BUL	**8/3247.5+3253.0+3258.5 9/5455.0**
LZG .	BTA Sofia, BUL	**2/11110.0 3/13400.0**
LZH 4	BTA Sofia, BUL	**11502.0**
LZI 33	Sofia, BUL	**7585.0**
LZJ 2	Sofia Meteo, BUL	*5092.5*
LZL/.	Bourgas R, BUL	-/1650.0+2638.0+2750.0 2/4262.0+4282.0+4342.0 3/6342.0+6423.0+6484.0 4/8472.0+8564.0+8684.0 5/12689.0+12709.0+12954.0 6/16866.0+16944.0+17182.0 7/22340.0+22415.0+22520.0
LZM 7	Sofia Meteo, BUL	**6645.0 6795.0**
LZN 3	BTA/PTT Sofia, BUL	**6960.0 13920.0**
LZP 2	BTA Sofia, BUL	**15555.0**
LZP 3	PTT Sofia, BUL	**18210.0**
LZS 3.	BN Sofia, BUL	30/8676.0 34/12870.0 38/22554.0
LZU 2	Sofia Meteo, BUL	**10937.0 11063.0 11126.0 22063.0 22126.0 22189.0**
LZW/..	Varna R, BUL	-/1750.0+2770.0+4352.0+4416.3+6515.7+**8710.0**+8711.5+**13095.5**+13156.6+17338.3+22617.7 2/4220.0+4250.0+4314.0 3/6336.0+6405.0+6448.0 4/8460.0 5/12659.0 6/16918.0+17055.0+17145.0 7/22344.0+22374.0+22486.0 42/8532.0 43/8607.0 52/12840.0 53/12880.0+12940.0+13000.0
L2C	Buenos Aires R, ARG	4304.0 8447.0 12728.0 16925.6
L2E	Buenos Aires R, ARG	8528.0 12901.0
L2Q	Mar del Plata R, ARG	4304.0
L2S	Mar del Plata R, ARG	8528.0 12901.0 16925.6
L2X	Comodoro Rivadavia R, ARG	4304.0 8447.0 12728.0
L2Z	Comodoro Rivadavia R, ARG	8528.0 12901.0 16925.6
L3V	Rio de la Plata R, ARG	2638.0
MGJ	RN Glasgow, G	2767.0 3319.0 4308.0
MKA	RAF London, G	5287.0
MKD	RAF Akrotiri, CYP	**7487.5 7580.0 7960.0 8155.0 9135.0 9967.0 10220.0 10495.0 10586.0 11095.0 12148.0 13515.0 13565.0 13925.0 14405.0 14602.5 14670.0 14855.0 16148.0 16280.0 18045.0 18535.0 19430.0 19895.0 20290.0 20330.0 20425.0 20980.0 22030.0 22422.0 22946.0 23380.0 25530.0**
MKK	RAF London, G	**5813.0 6995.0 7455.0 7710.0 9380.0 10200.0 10280.0 10654.0 14432.5 14445.0 14540.0 14840.0 14845.0 18120.0 18449.0 18456.0 18775.0 19250.0 23012.0 24620.0**
MKL	RAF Edinburgh, G	4730.0 6697.0 6698.0 8988.0 9037.0 11213.0 15040.0
MKT	RAF London, G	**12152.0**
MPF	RAF Brize Norton, G	5690.0
MQD	RAF Plymouth, G	6760.0
MQP	RAF Upavon, G	4742.0 5713.0 5730.0 6738.0 9032.0 11204.0 11234.0 18018.0 23220.0
MRP	RAF High Wycombe, G	4707.0
MSF	Rugby TS, G	60.0
MUA	BA London, G	**10841.0 11621.7 14381.0 14845.0 17450.0 17468.0 18710.0 20045.0**
MVU	RAF London, G	4722.0 11200.0
NAM	USN Norfolk, VA, USA	*3357.0 8080.0* 8090.0 *10865.0* 12135.0 16180.0 *16410.0 20015.0* 20225.0
NAR	USN Key West, FL, USA	5870.0 25590.0

NBA	USN Balboa, PNR	**11570.0 18067.5 18550.0** 18990.0 19615.0 **19616.5 20350.0 20850.0 21833.0 22771.0 22810.0**
NDT	USN Yokosuka, J	*4963.0 4967.0* 7428.0 7765.0 9200.0 10250.0 12040.0 12145.0 12759.0 *12777.0* 12817.5 16219.0 19658.0 *22322.5 22326.5*
NGD	USN McMurdo Sound, ATA	8997.0
NGR	USN Kato Soli, GRC	4623.0 13372.5 **19695.0**
NIK	USCG Boston, MA, USA	5320.0 *8502.0 12750.0*
NKW	USN Diego Garcia, DGA	7442.0 *7582.0 12806.0* 13254.0 20025.0 *20302.0*
NMA	USCG Miami, FL, USA	8457.0
NMC	USCG San Francisco, CA, USA	2670.0 *4346.0* 6383.0 **6504.0** 8574.0 *8682.0* 8714.5 *12730.0* 16880.9 *17151.2* **17207.0** *22527.0*
NMF	USCG Boston, MA, USA	*3242.0 7530.0* **13021.0 16968.8 17201.0**
NMJ 2	USCG Ketchikan, ALS	2670.0
NMN	USCG Portsmouth, VA, USA	**6496.0** 8465.0 8471.0 **8716.5** 12718.5 **13084.5** 16976.0 **17210.5** 22545.0 **22574.5**
NMO	USCG Honolulu, HWA	2670.0 8650.0 **8718.0** 12889.5 16457.5 17307.3 22472.0 22476.0
NOJ	USCG Kodiak, ALS	2670.0 *4298.0 8459.0* 8628.5
NPG	USN San Francisco, CA, USA	*6453.0 9090.0*
NPM	USN Pearl Harbour, HWA	*4855.0 9398.0* **15817.0** *21839.0*
NPN	USN Apra Harbour, GUM	*5258.0 5262.0 10253.0 10257.0* 13850.0 *16029.6* 18360.0 19575.0 *19858.0 19862.0* 20527.0 *23010.0 25478.0*
NPO	USN Subic Bay, PHL	4445.0 9485.0 9960.0 10135.0 *10964.0* 12245.0 12683.0 12867.0 12966.0 *15923.0*
NPX	USN South Pole Stn., ATA	8997.0
NRK	USN Keflavik, ISL	5167.0
NRV	USCG Apra Harbour, GUM	2670.0 8150.0 8570.0 **8710.5** 12743.0 **13077.0** 17146.4 **17203.0** 21760.0 22527.0 **22567.0**
NSY	USN Catania, I	*9050.0 17040.0*
NUD	USN Adak, ALS	*8494.0*
NWC	USN Exmouth, WA, AUS	*8614.0 12721.5 16914.5* 18009.0 23351.5
OA. 6	PELPER Iquitos R, PRU	A6/6335.5 + 6355.5 B6/3840.0 + 6335.5
OAF 4	PESROD Ilo R, PRU	2086.0
OAH 3	VICMARSA Paita R, PRU	2840.0
OAJ 4	PIL Ilo R, PRU	2075.0
OAO 3	VICMARSA Lima R, PRU	2840.0
OAO 4	MINERVA Lima R, PRU	2235.0
OAQ 4	PDH Paita R, PRU	2230.0
OBB 4	Ilo R, PRU	2638.0 4403.9 6509.5 13116.3
OBC	PN Callao, PRU	**16093.0** 18990.0 **19058.0**
OBC 3	Callao R, PRU	2738.0 4247.0 4363.6 6360.0 6474.0 6518.8 8465.0 8546.0 8728.2 12725.0 12938.0 13144.2 17160.0 17254.6 22595.0 22611.5 25045.0
OBF 4	Mollendo R, PRU	2638.0 4260.0 6351.0 6515.7 8490.0 8799.5 12815.0 13125.6 17015.0 17288.7 22465.0 22645.6 25065.0
OBG 3	Pisco R, PRU	3801.4 4391.5 6506.4 13193.8
OBH 2	Pimentel R, PRU	3670.0
OBQ 5	Iquitos R, PRU	4325.0 4391.5 6500.0 6518.8 8808.8 12795.0 13134.9 16970.0 17313.5 22555.0 22639.4 25110.0
OBR 3	Salaverry R, PRU	3790.0 6515.7 13134.9
OBT 2	Talara R, PRU	3801.4 4391.5 6506.4 8540.0 13116.3
OBY 2	Paita R, PRU	2738.0 4291.0 4403.9 6436.0 6512.6 8527.0 8790.2 12695.0 13193.8 16933.0 22395.0 25025.0
OBZ 3	Chimbote R, PRU	2638.0 4403.9 6509.5 13116.3
OCJ 2	CPV Callao R, PRU	2101.4 2104.9 2206.0 4350.0
OCP 2	PELPER Saramuro R, PRU	3840.0 6335.5
ODB 6	LN Beirut, LBN	2000.0
ODR .	Beirut R, LBN	3/8702.0 4/13101.0 5/4434.9 6/2641.0 7/8802.6 8/13147.3 9/4351.0
OEC	MFA Vienna, AUT	**7891.0 14488.5 14520.0 19810.4 20750.0**
OEC 35	Austrian E Delhi, IND	**14488.5**
OEC 36	Austrian E Beijing, CHN	**19810.4**
OEC 51	Austrian E Cairo, EGY	**14488.5**

OEC 61	Austrian E Rome, I	**7891.0**
OEC 72	Austrian E Lisbon, POR	**14488.5**
OED	DDSG Vienna R, AUT	4066.1 4072.3 6206.2 8204.3
OEY 32	AA Salzburg, AUT	13986.0 18592.0 20946.0 23750.0
OEY 532	Austr. UNFICYP Larnaca, CYP	13986.0 20946.0 23750.0
OFA	Helsinki R, FNL	**6497.0 13087.5 17427.5**
OFH	Mariehamn R, FNL	1852.0 1876.0
OFJ ..	Helsinki R, FNL	3/12669.0 4/4271.0 6/6355.0 7/16923.6 22/22396.0 25/25065.0 32/12687.0 82/8457.0
OHG/2	Helsinki R, FNL	-/2810.0 2/4394.6 + 4407.0 + 8722.0 + 8728.2 + 8731.3 + 8743.7 + 8805.7 + 13116.3 + 13125.6 + 13138.0 + 13147.3 + 13172.1 + 13181.4 + 13190.7 + 17248.4 + 17263.9 + 17273.2 + 17276.3 + 17301.1 + 17341.4 + 17347.6 + 22605.3 + 22623.9 + 22636.3 + 22661.1 + 22689.0
OLT ..	Prague Meteo, TCH	3/*124.6* 21/*111.8*
OMA	Prague TS, TCH	50.0
OMC	Bratislava R, TCH	2583.0 2645.0 4344.5 4407.0 6393.5 6440.0 8476.0 8627.5 8743.7 12818.0 13057.0 13169.0 16897.5 16917.0 17254.6 22654.9
OMD	Prague, TCH	4550.0 5420.0
OMK	Komarno R, TCH	2583.0 2645.0 4344.5 4407.0 6393.5 6440.0 8476.0 8627.5 8743.7 12818.0 13057.0 13169.0 16897.5 16917.0 17254.6 22654.9
OML	Decin R, TCH	4407.0 8743.7 13169.0
OMP/..	Prague R, TCH	-/4413.2 + 8737.5 + 13178.3 + 17254.6 + 22654.9 2/4292.5 3/6440.0 4/8627.5 5/13007.0 6/16977.0 7/22486.0 21/4344.5 23/4329.0 33/6433.5 41/8482.0 44/8544.0 51/12818.0 61/17024.0 71/22460.0 81/25052.0 82/25143.0
OMV ...	Prague, TCH	51/4020.0 94/6824.0 237/6923.0
OMZ	MFA Prague, TCH	4500.0 **6871.0 9278.0 15941.0 15969.5 16370.0 18320.0 20619.0** 23906.0
ONA 20	INTERPOL Brussels, BEL	**8122.0**
ONY 22	NATO Rheindahlen, D	4814.0
ONY 27	NATO Mons, BEL	4581.5 5737.5 7879.0 13937.5
ONY 77	BAF Koksijde, BEL	8989.0
ORI ..	RTT Brussels, BEL	37/18526 49/**19576.0** + 19577.5 59/19542.8 + 19546.0 + 19549.0
OSA	Antwerpen R, BEL	1649.5 1652.5 1705.0 1708.0 1901.0 1904.0 2814.0 2817.0 3652.0 3655.0
OSN 4..	BN Oostende, BEL	41/1831.0 46/6391.5 412/12725.0 416/16930.0
OST/..	Oostende R, BEL	-/**2815.5** + **4605.0** + **9402.5** + **13987.5** + **19012.0** + **22443.0** 2/4298.0 3/6411.0 4/8478.0 5/12781.5 6/17017.1 7/22533.0 8/25135.0 22/4290.5 28/**5376.5** 32/6328.3 37/**6502.5** 38/**7776.5** 42/8652.0 52/13067.0 57/**13079.0** 58/**14719.0** 62/17187.0 67/**17203.0** 68/**19013.5** 72/22351.5 82/27017.0
OSU/..	Oostende R, BEL	-/1649.5 + 1652.5 + 1705.0 + 1708.0 + 1817.0 + 1820.0 + 1901.0 + 1904.0 + 1905.0 + 1908.0 + 2087.0 + 2090.0 + 2253.0 + 2256.0 + 2373.0 + 2376.0 + 2481.0 + 2484.0 + 2758.0 + 2761.0 + 2814.0 + 2817.0 + 3629.0 + 3632.0 + 3652.0 + 3655.0 + 3681.0 + 3684.0 21/4388.4 22/4422.5 23/4431.8 24/4379.1 27/4407.0 31/6509.5 41/8762.3 42/8805.7 43/8731.3 44/8734.4 45/8756.1 46/8725.1 49/8753.0 51/13119.4 52/13144.2 53/13138.0 54/13153.5 57/13156.6 61/17307.3 62/17313.5 63/17270.1 64/17257.7 67/17322.8 71/22670.4 72/22713.8 73/22651.8 74/22620.8 77/22636.3
OUA 32	DM Stevns, DNK	2357.5
OVC	DM Groennedal, GRL	2400.0
OVG ..	DM Frederikshavn, DNK	5/5760.0 8/8148.0 12/12329.0 16/16323.0
OVK	DM Aarhus, DNK	**4515.5**
OXB	Blaavand R, DNK	1713.0 1813.0 2593.0

OXF	Qaqortoq R, GRL	2129.0 2265.0
OXI	Nuuk R, GRL	2057.0 2116.0 2225.0 2400.0
OXJ	Torshavn R, Faroe Is., DNK	1708.0 1778.0
OXM	Ittoqqorttoormiit R, GRL	2225.0
OXP	Skagen R, DNK	1701.0 2740.0
OXT	Copenhagen Meteo, DNK	*5850.0 9360.0 13855.0 17510.0*
OXZ/..	Lyngby R, DNK	-/**1613.0** + 1687.0 + **2645.0** + **4355.5** + **4357.4** + **4363.6** + 4382.2 + 4400.8 + 4410.1 + 4416.3 + 4428.7 + 4431.8 + 4434.9 + **6498.5** + 6512.6 + 6518.8 + **8709.5** + 8715.5 + 8718.9 + 8740.6 + 8749.9 + 8756.1 + 8771.6 + 8787.1 + 8793.3 + 8799.5 + 8805.7 + **13084.0** + **13093.5** + 13107.0 + 13128.7 + 13131.8 + 13141.1 + 13144.2 + 13150.4 + 13156.6 + 13169.0 + 13178.3 + **17206.0** + **17212.5** + 17232.9 + 17239.1 + 17245.3 + 17254.6 + 17273.2 + 17282.5 + 17285.6 + 17298.0 + 17338.3 + 17356.9 + **22570.0** + **22579.0** + 22602.2 + 22617.7 + 22627.0 + 22633.2 + 22642.5 + 22648.7 + 22679.7 + 22698.3 + 22704.5 + **25437.0** + 25440.5 + 25444.0 2/4303.0 3/6446.8 4/8598.0 6/12916.5 8/17068.4 9/22419.0 21/4319.0 31/6439.0 41/**8626.0** 61/13038.0 62/12753.5 81/16920.0 82/16897.5 92/22404.0 93/22459.0 95/25262.0
OYE	Roenne R, DNK	2586.0
OYR	Aasiat R, GRL	2210.0 2265.0 2304.0 3276.0 3280.0 7570.0
OZL	Ammassalik R, GRL	2250.0
OZU 25	MFA Copenhagen, DNK	**19109.0**
OZW	Qanaaq R, GRL	3175.0 3250.0
PBC ...	DN Goeree Island, NLD	5/**10276.0** 32/**2474.0** 34/**4280.0** 36/**6358.5** 38/**8439.0** 312/**12840.5** 317/**17117.5** 911/**11133.0**
PBV	DAF Valkenburg, NLD	8970.0
PCG/..	Scheveningen R, NLD	-/1764.0 + 1862.0 + 1890.0 + 1939.0 + 2600.0 + 2824.0 + 3673.0 21/4369.8 22/4413.2 23/4385.3 24/4376.0 31/6509.5 41/8796.4 42/8731.3 43/8734.4 51/13138.0 52/13119.4 53/13156.6 61/17341.4 62/17350.7 63/17301.1 71/22608.4 72/22692.1
PCH ..	Scheveningen R, NLD	20/4250.0 26/**4355.0** 30/6404.0 35/**6496.5** 36/**6504.0** 40/8562.0 41/8622.0 42/8654.4 45/**8713.0** 46/**8717.0** 50/12768.0 51/12799.5 52/12853.5 55/**13077.0** 56/13088.5 60/16902.5 61/17007.2 62/17104.2 65/17217.5 66/17230.0 70/22324.5 71/22539.0 75/22565.0 76/22568.0 85/**1919.5**
PCW 1	MFA Den Haag, NLD	**7701.6 13415.3 15647.2 18468.3 18646.6 19731.5 21844.7**
PCW 6	Dutch E Jeddah, ARS	**18498.5**
PCW 8	Dutch E Tripoli, LBY	**19306.7**
PJC	Willemstad R, Curacao, ATN	2550.0 4334.0 4379.1 6491.5 6515.7 8694.0 8725.1 13042.5 13119.4 17170.4 17251.5
PKA	Sabang R, INS	3182.0 4388.4 17184.8
PKB	Belawan R, INS	8746.8 12970.5 13100.8 16861.7
PKC	Palembang R, INS	4397.7 8437.0
PKC 4	Panjang R, INS	6509.5
PKD	Surabaya R, INS	4379.1 8461.0 12704.5 13134.9 16861.7
PKE	Amboina R, INS	4379.1 8473.0 12686.0 13128.7 17184.8
PKE 5	Ternate R, INS	6428.5
PKF	Ujung Pandang R, INS	4397.7 13100.8
PKF 3	Kendari R, INS	8746.8
PKG	Banjarmasin R, INS	4388.4 8457.0 8765.4
PKM	Bitung R, INS	6428.5 8694.0 12704.5 13125.6
PKN	Balikpapan R, INS	4357.4 6326.5 8437.0 8746.8
PKO	Tarakan R, INS	4422.5
PKP	Dumai R, INS	4357.4 8457.0 8765.4 13125.6 17184.8
PKR	Semarang R, INS	4422.5 6326.5 8461.0
PKS	Pontianak R, INS	8473.0
PKT	Dili R, INS	4394.6 8787.1 13107.0 17276.3
PKU	Kalianget R, INS	8774.7

PKX	Jakarta R, INS	8542.0 8753.0 12970.5 13128.7 16861.7 17260.8 22431.0 22698.3
PKY 2	Biak R, INS	8437.0
PKY 4	Sorong R, INS	4422.5 8461.0 12970.5
PKY 4	Merauke R, INS	6326.5 6509.5 8457.0
PNK	Jayapura R, INS	4357.4 8694.0 13134.9 17074.4
PPF	Fortaleza R, B	4131.2 4425.6
PPJ	Juncao R, B	4231.0 4251.0 4312.0 4335.0 6349.0 6374.0 8460.0 8460.5 8497.5 8623.0 12689.5 12733.0 12776.0 12840.0 13184.5 16889.0 16918.0 17012.0 17170.0 17282.5 22355.0 22436.0 22496.0
PPL	Belem R, B	4247.5 4265.0 4311.0 4321.0 6347.0 6352.0 8460.5 8462.0 8481.0 8502.0 12674.0 12689.0 12742.0 12979.5 13125.6 13184.5 16886.0 16968.0 17002.0 17170.0 17332.1 22354.0 22429.0 22475.0
PPM	Manaus R, B	13169.0
PPO	Olinda R, B	4237.0 4280.0 4298.0 4329.0 6371.0 6377.0 8452.5 8494.0 8520.1 8548.0 12692.0 12766.0 12840.0 12958.5 13131.8 16908.0 17010.0 17120.0 17162.0 17248.4 22418.0 22444.0 22450.0
PPR	Rio de Janeiro R, B	4244.0 4333.0 4341.0 6385.0 6391.0 8492.0 8499.0 8529.0 8612.0 8634.0 12687.0 12719.0 12738.0 12805.0 12973.0 **13086.0** 13141.1 16984.0 16991.0 17023.0 17087.0 17194.4 **17209.0** 17263.9 17270.1 22352.5 22420.0 22424.0 22441.0 22534.0 22710.7
PPX	EMBRATEL Rio de Janeiro, B	20470.0
PWB	BN Belem, B	16960.0 22330.5
PWF	BN Salvador, B	**12210.0** 16960.0 22330.5
PWL	BN Corumba, B	4310.0 6465.0 8620.0
PWN	BN Natal, B	**11138.7** 12957.0 16960.0 17036.0 22330.5 22405.0
PWR	BN Recife, B	12186.5
PWZ	BN Rio de Janeiro, B	4259.0 4289.0 4322.0 **6419.9** 6420.0 6435.0 6483.0 8291.0 8530.0 **8532.0** 8542.0 8550.0 **8551.2** 8644.0 12025.0 **12210.0** 12736.5 12754.5 **12795.0** 12966.0 **13517.0** **14609.5** **15932.0** **16242.5** 16950.0 **17122.0** 17122.4 17140.0 **17160.0** 22443.0 22445.0 22455.0 22530.0 **23010.0** **24432.5**
PZN/..	Paramaribo R, SUR	-/2818.0 + 4379.1 + 8740.6 + 13119.4 + 17254.6 2/6355.0 3/8652.5 4/13046.0 25/4255.3 26/16956.0
P2H	Mount Hagen Air, PNG	**7756.3**
P2M	Port Moresby R, PNG	2201.0 4247.0 4382.2 4407.0 6351.5 6515.7 8515.0 8731.3 13042.0 13175.2
P2R	Rabaul R, PNG	2201.0 4247.0 4382.2 4407.0 6351.5 6515.7 8515.0 8731.3 13042.0 13175.2
RAB 44	Tashkent, UZ, URS	**4515.0**
RAD 24	TASS Moscow, RU, URS	**18410.0**
RAM 24	R Moscow feeder, RU, URS	6875.0
RAN 71	R Moscow feeder, RU, URS	7450.0
RAN 72	R Moscow feeder, RU, URS	7410.0
RAN 76	R Moscow feeder, RU, URS	6890.0
RAN 77	Moscow Meteo, RU, URS	*6880.0*
RAT 21	Moscow Meteo, RU, URS	*4202.5*
RAT 23	R Moscow feeder, RU, URS	6987.5
RAW 71	TASS Moscow, RU, URS	**8060.0**
RAW 78	Moscow Meteo, RU, URS	*7750.0*
RBI 72	APN Moscow, RU, URS	**16135.0**
RBI 74	PTT Moscow, RU, URS	**16220.0**
RBI 75	PTT Moscow, RU, URS	**16031.4** **16032.8**
RBI 75	R Moscow feeder, RU, URS	10955.0
RBI 77	Moscow Meteo, RU, URS	*15950.0*
RBI 78	TASS Moscow, RU, URS	**15930.0**
RBK 72	R Moscow feeder, RU, URS	6805.0
RBM 76	R Moscow feeder, RU, URS	15600.0
RBT 54	Irkutsk Meteo, SE, URS	**6970.0**

RBV 70	Tashkent Meteo, UZ, URS	*3690.0*
RBV 71	Tashkent Meteo, UZ, URS	**3750.0**
RBV 75	Moscow Meteo, RU, URS	**7685.0**
RBV 76	Tashkent Meteo, UZ, URS	*14982.5*
RBV 78	Tashkent Meteo, UZ, URS	*5890.0*
RBV 79	R Moscow feeder, RU, URS	6825.0
RBW 40	Murmansk, RU, URS	3720.0
RBW 43	SAM Murmansk, RU, URS	**10380.0**
RBW 48	Murmansk Meteo, RU, URS	*10130.0 20260.0*
RBX 56	ANGOP Moscow, RU, URS	**7525.0 15050.0**
RBX 7.	Tashkent Meteo, UZ, URS	70/*3280.0* 71/*5285.0* 72/*7570.0*
RCB 52	R Moscow feeder, RU, URS	11020.0
RCB 55	TASS Moscow, RU, URS	**12085.0**
RCB 59	R Moscow feeder, RU, URS	20850.0
RCC 72	PTT Moscow, RU, URS	**20290.0**
RCC 74	APN Moscow, RU, URS	**14580.0**
RCC 74	R Moscow feeder, RU, URS	14580.0
RCC 75	TASS Moscow, RU, URS	**20615.0**
RCC 76	Moscow Meteo, RU, URS	*7670.0 23010.0*
RCC 79	TASS Moscow, RU, URS	**19210.0**
RCD 33	R Moscow feeder, RU, URS	8005.0
RCD 34	APN Moscow, RU, URS	**12175.0**
RCD 36	PL Moscow, RU, URS	**19505.0**
RCD 39	PTT Moscow, RU, URS	**13847.0**
RCE 54	TASS Moscow, RU, URS	**16050.0**
RCF 41	TASS Moscow, RU, URS	**17360.0**
RCF 44	R Moscow feeder, RU, URS	9105.0
RCF 47	APN Moscow, RU, URS	**16215.0**
RCF 47	PTT Moscow, RU, URS	16215.0
RCG	Moscow Meteo, RU, URS	*144.5*
RCG 77	TASS Moscow, RU, URS	**13490.0**
RCG 79	R Moscow feeder, RU, URS	14625.0
RCH	Tashkent TS, UZ, URS	2500.0 5000.0 10000.0
RCH 7.	Tashkent Meteo, UZ, URS	72/*9340.0* 73/*9150.0*
RCI 72	Moscow Meteo, RU, URS	*3875.0*
RCI 73	R Moscow feeder, RU, URS	18195.0
RCI 73	TASS Moscow, RU, URS	**18195.0**
RCK 77	Novosibirsk Meteo, SW, URS	*3635.0*
RCO 75	Yakutsk Meteo, SE, URS	*13450.0*
RCQ 73	Yakutsk Meteo, SE, URS	*10665.0*
RCR 7.	Khabarovsk Meteo, SE, URS	**72/5785.0 77/11520.0 78/13803.0** 79/*14610.0*
RCT 57	TASS Moscow, RU, URS	**18405.0**
RCU 7.	Novosibirsk Meteo, SW, URS	**71/7715.0** 73/*9060.0* 79/*12230.0*
RCV	SN Moscow, RU, URS	5164.0 5322.0 5912.0 6456.0 6904.0 7574.0 9476.0 12744.0 12757.0 16296.0 16376.0 16942.0 16948.0 19044.0 19098.0 21812.0
RCV 26	ANGOP Moscow, RU, URS	**9140.0**
RCV 28	R Moscow feeder, RU, URS	18285.0
RCV 29	R Moscow feeder, RU, URS	6950.0
RCW 79	Alma Ata Meteo, KA, URS	*7910.0*
RDD 72	TASS Moscow, RU, URS	**12325.0**
RDD 77	Moscow Meteo, RU, URS	**11450.0**
RDD 79	Moscow Meteo, RU, URS	*10980.0 21960.0*
RDE 7.	Kuybishev Meteo, RU, URS	72/*5102.0* 73/*2720.0*
RDH 45	R Moscow feeder, RU, URS	9180.0
RDK 23	Tbilisi Meteo, GE, URS	*7495.0 14990.0*
RDK 26	R Moscow feeder, RU, URS	19311.0
RDM 7.	Tbilisi Meteo, GE, URS	**73/4455.0+8910.0 78/5335.0+10670.0+21340.0**
RDN 25	R Moscow feeder, RU, URS	16340.0
RDR 28	PTT Moscow, RU, URS	14635.0
RDT 57	TASS Moscow, RU, URS	**18310.0**
RDW 7.	Khabarovsk Meteo, SE, URS	**72/6830.0** 76/*10220.0*
RDZ 71	TASS Moscow, RU, URS	**10258.0**
RDZ 75	Moscow Meteo, RU, URS	**9190.0**
RDZ 76	R Moscow feeder, RU, URS	9145.0
RDZ 79	R Moscow feeder, RU, URS	8125.0
REB 24	TASS Moscow, RU, URS	**14700.0 29400.0**
RED 52	TASS Moscow, RU, URS	**15710.0**

REM 55	APN Moscow, RU, URS	**17520.0**
REM 57	TASS Moscow, RU, URS	**16260.0**
REN 30	TASS Moscow, RU, URS	**15575.0**
RFD 50	APN Moscow, RU, URS	**19035.0**
RFD 53	TASS Moscow, RU, URS	**17510.0**
RFM 27	APN Moscow, RU, URS	**16060.0**
RFNV	Moscow Air, RU, URS	6685.0 8840.0 11359.0 15024.0
RFU 7	Rostov-na-Donu M., RU, URS	*7967.5*
RGC 7.	Kiyev Meteo, UK, URS	70/**6920.0** 72/**4442.5**
RGD 25	R Moscow feeder, RU, URS	12160.0
RGD 27	APN Moscow, RU, URS	**11615.0**
RGD 27	R Moscow feeder, RU, URS	11615.0
RGD 29	R Moscow feeder, RU, URS	11510.0
RGE 32	R Moscow feeder, RU, URS	11480.0
RGG 43	APN Moscow, RU, URS	**15910.0**
RGH 77	Arkhangelsk Meteo, RU, URS	7760.0 *7762.0* **23280.0**
RGI 24	TASS Moscow, RU, URS	**10120.0 20240.0**
RGJ 6.	Kuybishev Meteo, RU, URS	61/*3710.0* 62/*4530.0*
RGO 75	Khabarovsk Meteo, SE, URS	**4910.0**
RGT 77	Moscow, RU, URS	7050.0 14106.0 14147.0
RGW 26	TASS Moscow, RU, URS	**16190.0**
RGV 51	R Moscow feeder, RU, URS	13830.0
RGW 28	TASS Moscow, RU, URS	**16140.0**
RGZ 4	Omsk, SW, URS	9311.0
RHA 42	APN Moscow, RU, URS	**16020.0**
RHA 42	R Moscow feeder, RU, URS	16020.0
RHA 46	APN Moscow, RU, URS	**20925.0**
RHA 49	APN Moscow, RU, URS	**22843.0**
RHK 20	R Moscow feeder, RU, URS	19000.0
RIC 71	R Moscow feeder, RU, URS	14940.0
RIC 75	TASS Moscow, RU, URS	**14510.0 29020.0**
RID	Irkutsk TS, SE, URS	5004.0 10004.0 15004.0
RIF 32	APN Moscow, RU, URS	**18440.0**
RIF 33	APN Moscow, RU, URS	**18170.0**
RIJ 71	TASS Moscow, RU, URS	**17600.0**
RIJ 75	Tashkent Meteo, UZ, URS	*8083.0*
RIS 70	Tbilisi Meteo, GE, URS	*3745.0*
RIT	SN Vaygach, RU, URS	5132.4 6480.0 6934.0 8596.0 9375.0 10787.0 12687.8 12692.0 12794.0 15656.0 16870.0 16936.0 18876.0 20064.0 20484.0
RIW	SN Khiva, UZ, URS	8508.0 8523.0 9145.0 10438.0 10690.0 11000.0 11048.0 11488.0 12104.0 13828.0 14509.0 14556.0 18664.0 21380.0 21764.0 22095.0
RIZ 54	R Moscow feeder, RU, URS	14410.0
RIZ 59	Moscow Meteo, RU, URS	*18710.0*
RJK 78	Kiyev Meteo, UK, URS	*6950.0*
RJS	SN Vladivostok, SE, URS	10154.0 18615.0
RJV	SN Tiksi, SE, URS	14280.0
RKA 25	TASS Moscow, RU, URS	**10270.0**
RKA 70	PTT Moscow, RU, URS	7580.0
RKA 71	TASS Moscow, RU, URS	**10790.0**
RKA 72	R Moscow feeder, RU, URS	10740.0
RKA 73	Moscow Meteo, RU, URS	*10710.0*
RKA 74	APN Moscow, RU, URS	**10465.0**
RKA 75	R Moscow feeder, RU, URS	16330.0
RKA 76	R Moscow feeder, RU, URS	10330.0
RKA 78	Moscow Meteo, RU, URS	*10230.0*
RKA 79	TASS Moscow, RU, URS	**10105.0 20210.0**
RKB 58	TASS Moscow, RU, URS	**14720.0**
RKB 70	APN Moscow, RU, URS	**20965.0**
RKC 24	R Moscow feeder, RU, URS	6822.5
RKC 25	R Moscow feeder, RU, URS	14410.0
RKC 25	TASS Moscow, RU, URS	**14410.0**
RKC 29	TASS Moscow, RU, URS	**5470.0**
RKDF	Pärnu R, ES, URS	8650.0 13065.0 17105.0
RKD 41	PTT Moscow, RU, URS	16280.0
RKD 48	R Moscow feeder, RU, URS	10595.0
RKE 29	APN Moscow, RU, URS	**21793.0**

RKF 64	PTT Moscow, RU, URS	14800.0
RKLM	Arkhangelsk R, RU, URS	8580.0 12942.0 16975.0
RKM 22	R Moscow feeder, RU, URS	10690.0
RKR 7.	Irkutsk Meteo, SE, URS	**74/4560.0** 76/*5280.0* 78/**5740.0**
RKST	Tashkent Air, UZ, URS	**7083.0**
RKS 7.	Murmansk, RU, URS	71/4850.0 72/6905.0
RKU 71	Moscow Meteo, RU, URS	*13470.0*
RKU 72	R Moscow feeder, RU, URS	13370.0
RKU 74	APN/TASS Moscow, RU, URS	**12285.0**
RMC 21	APN/TASS Moscow, RU, URS	**19127.0**
RMC 25	APN Moscow, RU, URS	**20695.0**
RMD 59	APN Moscow, RU, URS	**16300.0**
RME 20	R Moscow feeder, RU, URS	9210.0
RME 22	APN Moscow, RU, URS	**16250.0**
RME 22	R Moscow feeder, RU, URS	16250.0
RME 23	R Moscow feeder, RU, URS	6390.0
RMP	SN Kaliningrad, RU, URS	4163.0 5881.0 8680.0 10118.0 11132.0 13633.0 16016.0 16176.0
RMT	SN Chelyuskin, SE, URS	**14211.9**
RND 70	TASS Moscow, RU, URS	**18125.0**
RND 71	APN Moscow, RU, URS	**16085.0**
RND 77	Moscow Meteo, RU, URS	*5355.0*
RND 79	Moscow Meteo, RU, URS	*5325.0*
RNE 34	APN Moscow, RU, URS	**21805.0**
RNJ 73	Minsk Meteo, BY, URS	4850.0
RNK 3.	TASS Moscow, RU, URS	**33/11470.0 36/14490.0**
RNN 51	TASS Moscow, RU, URS	**8140.0**
RNO	SA/AAMC Moscow, RU, URS	**12793.0 17163.0**
RNR 4	Magadan Meteo, FE, URS	*9355.0 12170.0 13405.0*
RNR 78	Rostov-na-Donu M., RU, URS	*7630.0*
ROF 7.	Novosibirsk Meteo, SW, URS	**71/3590.0** 76/*5335.0*
ROK 21	R Moscow feeder, RU, URS	8040.0
ROK 22	R Moscow feeder, RU, URS	7925.0
ROK 24	Moscow Meteo, RU, URS	**7855.0**
ROK 27	R Moscow feeder, RU, URS	7560.0
ROM 5	Tashkent Meteo, UZ, URS	*13947.0*
ROO 70	Rostov-na-Donu M., RU, URS	*3610.0*
ROP 59	R Moscow feeder, RU, URS	9200.0
ROQ 3	Novosibirsk Meteo, SW, URS	**7890.0**
ROT	SN Moscow, RU, URS	8450.5 8456.0 8500.0 12995.0 13045.0 17045.0 17130.0 17155.0 **22450.0** 25130.0
ROU 70	Riga, LA, URS	4895.0
ROW 2.	R Moscow feeder, RU, URS	25/9150.0 26/14850.0 + 29700.0 27/13960.0
RPJ 78	Tashkent Meteo, UZ, URS	*4365.0*
RPN 7.	Kiyev Meteo, UK, URS	71/*3360.0* 75/*4525.0*
RPT 3.	TASS Moscow, RU, URS	**31/10165.0 34/19105.0**
RQM 76	Khabarovsk Meteo, SE, URS	*7530.0*
RQT	Irkutsk, SE, URS	14206.5 14294.5
RQV 70	TASS Moscow, RU, URS	**18050.0**
RRC 61	APN Moscow, RU, URS	**13430.0**
RRC 61	R Moscow feeder, RU, URS	13430.0
RRG 25	APN Moscow, RU, URS	**19070.0**
RRG 25	PTT Moscow, RU, URS	19070.0
RRG 26	R Moscow feeder, RU, URS	18870.0
RRG 28	APN Moscow, RU, URS	**18520.0**
RRG 29	R Moscow feeder, RU, URS	18460.0
RRQ 20	TASS Moscow, RU, URS	**18385.0**
RRW 71	APN Moscow, RU, URS	**13540.0**
RRZ 70	Petropavlovsk-Kamchatskiy Meteo, FE, URS	*5790.0*
RSF 27	R Moscow feeder, RU, URS	16370.0
RSR 7.	Minsk Meteo, BY, URS	76/*4005.0* 79/*7575.0*
RST 7.	Minsk Meteo, BY, URS	75/*3810.0* 76/*7640.0*
RSW 71	Arkhangelsk Meteo, RU, URS	5345.0 *5347.0*
RTA	Novosibirsk TS, SW, URS	10000.0 15000.0
RTB 25	TASS Moscow, RU, URS	**18160.0**
RTB 26	Novosibirsk Meteo, SW, URS	*9220.0*
RTC 26	Novosibirsk Meteo, SW, URS	**15566.0**

RTEU	Aleksandrov-Sakhalinskiy R, FE, URS	2590.0 4283.0
RTO	Moscow Meteo, RU, URS	*53.6*
RTO 70	Krasnoyarsk Meteo, SW, URS	*2845.0*
RTP 7.	Irkutsk Meteo, SE, URS	**72/7700.0 78/10205.0** + *10207.0*
RTQ 78	Sverdlovsk Meteo, SW, URS	**9290.0**
RTT 40	APN Moscow, RU, URS	**16040.0**
RTT 42	R Moscow feeder, RU, URS	10770.0
RTU 4.	R Moscow feeder, RU, URS	40/12100.0 48/20280.0
RTV 5.	TASS Moscow, RU, URS	**55/6870.0 57/18540.0**
RTZ	Irkutsk TS, SE, URS	50.0
RUD 38	APN Moscow, RU, URS	**12222.5**
RUU 72	R Moscow feeder, RU, URS	14437.0
RUU 74	R Moscow feeder, RU, URS	18402.0
RUU 79	Leningrad Meteo, RU, URS	**4900.0**
RUZU	SAAM Molodezhnaya, ATA	**9280.0 10100.0** *10142.0 10830.0* 13385.0 **13505.0 13865.0 14747.0** ***15830.0*** *18490.0*
RVB 55	R Moscow feeder, RU, URS	14820.0
RVL 21	Khabarovsk Meteo, SE, URS	8085.0
RVL 29	APN Moscow, RU, URS	**11575.0**
RVL 29	R Moscow feeder, RU, URS	11575.0
RVM 45	Tashkent Meteo, UZ, URS	**5430.0**
RVO 73	Moscow Meteo, RU, URS	*5080.0 5150.0 5220.0 10300.0*
RVO 76	Moscow Meteo, RU, URS	*2815.0*
RVO 77	R Moscow feeder, RU, URS	9240.0
RVO 79	Moscow Meteo, RU, URS	*6910.0*
RVO 79	R Moscow feeder, RU, URS	6910.0
RVU 75	R Moscow feeder, RU, URS	9350.0
RVW 52	R Moscow feeder, RU, URS	13670.0
RVW 53	Moscow Meteo, RU, URS	**13530.0**
RVW 55	R Moscow feeder, RU, URS	13820.0
RVW 57	TASS Moscow, RU, URS	**12315.0**
RVZ 73	Arkhangelsk Meteo, RU, URS	**3655.0**
RWC 62	R Moscow feeder, RU, URS	10620.0
RWE 26	R Moscow feeder, RU, URS	18730.0
RWG 57	R Moscow feeder, RU, URS	10235.0
RWH 79	Alma Ata Meteo, KA, URS	**10570.0**
RWM	Moscow TS, RU, URS	4996.0 9996.0 14996.0
RWM 72	APN Moscow, RU, URS	**15630.0**
RWM 72	R Moscow feeder, RU, URS	15630.0
RWM 73	R Moscow feeder, RU, URS	15750.0
RWM 74	APN Moscow, RU, URS	**15720.0**
RWM 74	R Moscow feeder, RU, URS	15720.0
RWM 77	APN Moscow, RU, URS	**16145.0**
RWM 79	APN Moscow, RU, URS	**14950.0**
RWM 79	R Moscow feeder, RU, URS	14950.0
RWN 70	APN Moscow, RU, URS	**18635.0**
RWN 71	APN Moscow, RU, URS	**18455.0**
RWN 72	PL Moscow, RU, URS	**18600.0**
RWN 74	APN Moscow, RU, URS	**18835.0**
RWW 70	TASS Moscow, RU, URS	**19235.0**
RWW 73	Moscow Meteo, RU, URS	**5140.0**
RWW 74	Moscow Meteo, RU, URS	**5020.0**
RWW 76	APN/TASS Moscow, RU, URS	**19830.0**
RWW 76	R Moscow feeder, RU, URS	19830.0
RWW 79	Moscow Meteo, RU, URS	*4550.0*
RWZ 72	Moscow Meteo, RU, URS	**3330.0**
RWZ 74	TASS Moscow, RU, URS	**19845.0**
RWZ 77	Moscow Meteo, RU, URS	*11525.0*
RXA 7.	Alma Ata Meteo, KA, URS	71/**3995.0** 76/*9927.5* 77/*13707.0*
RXB 7.	Khabarovsk Meteo, SE, URS	70/*3250.0* 72/*4516.7* 75/*7475.0*+ *14950.0*
RXH	Komsomol'sk-na-Amure Air, SE, URS	8816.0
RXO 7.	Khabarovsk Meteo, SE, URS	70/*9230.0*+ *18460.0* 72/*14737.0* 74/*19275.0*
RYM	IAG Moscow, RU, URS	10275.0 13360.0
RYO 7.	Novosibirsk Meteo, SW, URS	76/*12320.0* 79/*5765.0*
RYP 2.	Khabarovsk Meteo, SE, URS	26/**4445.0** 27/*4580.0* 29/*5110.0*
RYZ 8	Kishinev Meteo, MO, URS	**3665.0**

RZA 24	APN Moscow, RU, URS	10865.0
RZA 26	R Moscow feeder, RU, URS	10670.0
RZT 73	R Moscow feeder, RU, URS	9250.0
RZX 5	Magadan Meteo, FE, URS	*5755.0*
SAA	Karlskrona R, S	2789.0
SAB/...	Goeteborg R, S	-/1905.0 + 2423.5 + 2716.0 2/4299.5 3/6451.5 4/8646.0 6/12755.5 8/17057.2 9/22438.5 23/4268.6 25/25415.5 33/6460.0 44/8556.0 63/12818.0 83/17024.0 93/22356.8 209/4354.0 214/4356.5 301/6494.5 319/6503.5 407/8708.0 424/8716.5 606/13074.0 624/13083.0 814/17204.0 864/17229.0 907/22564.5 932/22577.0
SAC	Trelleborg R, S	2621.0
SAE	Tingstäde R, S	2768.0
SAG/..	Goeteborg R, S	-/1785.0 + 1904.0 + 4357.4 + 4363.6 + 4382.2 + 4410.1 + 4416.3 + 4428.7 + 6512.6 + 6518.8 + 8718.9 + 8725.1 + 8740.6 + 8749.9 + 8771.6 + 8793.3 + 8787.1 + 8799.5 + 8805.7 + 13107.0 + 13128.7 + 13131.8 + 13141.1 + 13144.2 + 13150.4 + 13156.6 + 13169.0 + 13178.3 + 17232.9 + 17239.1 + 17245.3 + 17254.6 + 17273.2 + 17282.5 + 17285.6 + 17298.0 + 17338.3 + 17356.9 + 22602.2 + 22617.7 + 22627.0 + 22633.2 + 22648.7 + 22679.7 + 22685.9 + 22698.3 + 26135.1 + 26144.4 + 26150.6 2/4262.0 3/6372.5 4/8498.0 6/12880.5 8/17079.4 9/22413.0 25/25461.0
SAH	Härnösand R, S	1650.0 2733.0
SAM	MFA Stockholm, S	10165.8 12103.0 14903.4 14970.3 18258.0 18688.0 18691.0 18810.0 18947.0 19216.2 19217.2 19425.5 19622.0 20010.0 20012.0 20606.9 20750.0 20919.4 20922.0 20990.0 22253.9 22930.0 23078.9 23505.7 23586.0 24008.0
SAM 25	Swedish E Lisbon, POR	18947.0
SAM 26	Swedish E London, G	14970.3
SAM 31	Swedish E El Djaza'ir, ALG	18688.0
SAM 34	Swedish E Harare, ZWE	19622.0 23078.9
SAM 37	Swedish E Bucharest, ROU	18691.0
SAM 49	Swedish E Jeddah, ARS	12103.0
SAM 51	Swedish E Tehran, IRN	19217.2
SAM 52	Swedish E Tel Aviv, ISR	20012.0
SAM 55	Swedish E Bangkok, THA	23548.0
SAM 62	Swedish E Beijing, CHN	20990.0
SAM 67	Swedish E Colombo, SLK	24008.0
SAM 70	Swedish E Addis Ab., ETH	20010.0 20012.0
SAM 75	Swedish E Nairobi, KEN	23586.0
SAM 76	Swedish E Pretoria, AFS	20922.0
SAM 83	Swedish E Santiago, CHL	23527.9
SAM 98	Swedish E Manila, PHL	19425.5
SDJ	Stockholm R, S	1771.0 1778.0 2754.0
SD. ..	ST Stockholm, S	K3/16265.0 K96/22990.0 N6/10780.0 Q7/18187.0 U9/18295.0
SHN ..	Stockholm Air, S	25/25035.0 33/23210.0
SK. ..	Stockholm Air, S	J25/10575.0 M39/13942.5 N26/14645.0
SNN 299	MFA Warsaw, POL	5923.0 8154.0 9153.0 10415.0 10653.0 11464.0 11467.0 12078.0 12216.0 12228.0 14359.0 15652.0 17448.0 20320.0 20418.0
SOA 21.	Warsaw Meteo, POL	211/111.3 212/129.5
SOE 349	Warsaw Meteo, POL	4497.0
SOF 290	PAP Warsaw, POL	5903.0
SOG 28.	PAP Warsaw, POL	280/6805.0 284/6848.0
SOH 256	PAP Warsaw, POL	7562.0
SOH 28..	PAP Warsaw, POL	284/7845.0 289B/7892.5
SOH 299	Warsaw Meteo, POL	7997.0
SOI 2..	PAP Warsaw, POL	200/8001.0 219/8192.5
SOJ 2.9	PAP Warsaw, POL	229/9298.0 239/9391.0
SOK 2..	PAP Warsaw, POL	244/10245.0 269/10694.0
SOL	PAP Warsaw, POL	242B/11423.5 249/11494.0 349/11497.0 353/11535.0

SON 2...	PAP Warsaw, POL	254/**13541.5** 260B/**13602.4** 261/13616.0 263/**13563.6**
SOO 2..	PAP Warsaw, POL	236/**14362.0** 259/**14597.0**
SOR 249	PAP Warsaw, POL	**17492.0**
SOT 2...	PAP Warsaw, POL	265/18650.0 265A/**18651.5** 265B/**18648.5** 299B/**18993.5**
SOV 2...	PAP Warsaw, POL	288/**20286.5** 293A/**20936.5** 293B/**20933.5**
SOY 240.	PAP Warsaw, POL	240A/23408.0 240B/**23405.0**
SPA/..	Gdynia R, POL	-/**8706.0** 9/22495.0 62/**13090.0**
SPB/..	Szczecin R, POL	-/**2829.5** + **8715.0** 21/**4352.0** 32/**6502.0** 42/**8708.5** 61/13073.5 62/**13089.0** 91/**22564.0**
SPC/..	Gdynia R, POL	-/1818.0 + 2726.0 21/4425.6 22/4372.9 23/4360.5 31/6509.5 41/8753.0 42/8790.2 43/8728.2 44/8734.4 61/13147.3 62/13187.6 63/13125.6 64/13193.8 81/17251.5 82/17325.9 83/17332.1 91/22639.4 92/22692.1 93/22611.5 94/22620.8
SPE ..	Szczecin R, POL	21/4306.0 22/4331.0 31/6459.0 32/6376.0 41/8557.0 42/8650.0 61/12939.0 62/12872.0 63/13022.0 81/16974.0 82/16861.7 83/17070.0 91/22505.0 92/22551.0
SPH ..	Gdynia R, POL	9/22399.0 21/4337.0 22/4272.0 23/4319.0 31/6383.0 32/6398.0 41/8482.0 42/8634.0 43/8666.4 44/8678.0 61/12721.0 62/12826.5 63/12928.0 81/16887.5 82/17016.0 83/17064.0 84/16914.5
SPI 9	Gdynia R, POL	22407.0
SPO/..	Szczecin R, POL	-/1757.0 + 2831.0 21/4379.0 22/4366.7 31/6515.7 41/8746.8 42/8808.8 61/13159.7 62/13181.4 81/17307.3 82/17347.6 91/22651.8
SPS	Witowo R, POL	2639.0 2719.0
SPW	Warsaw R, POL	**7892.5** 7894.0 **7973.5** 7975.0 **11424.0** 11425.0 **13602.4** **14654.5** 14656.0 16136.0 **18993.5** 18995.0 **20286.5**
STK	Khartoum Air, SDN	**7803.5 8101.0 9211.5 9231.0 9347.5 10451.5 11061.5 11428.5 11507.5 11634.5 13996.5 16203.5 18164.5 18543.5**
SUA ...	MENA Cairo, EGY	34/**7756.0** 50/**13653.0** 94/**5220.0** 211/**5275.0** 231/**7610.0** 246/**10150.0** 251/10610.0 289/**13199.5** + **15845.0** 291/**15935.0**
SUC	Cairo Air, EGY	**10633.0 14498.0 14776.0**
SUH/.	Alexandria R, EGY	-/2576.0 + 2817.0 + 4410.1 + 6518.8 + 8768.5 + 13147.3 + 17260.8 + 22673.5 3/8578.0 4/12970.5 5/16912.0 + 17124.4 6/4347.9 7/6342.6
SUK	Quseir R, EGY	1680.0 1849.0
SUP	Port Said R, EGY	2840.0 4325.0 6425.0 8473.0 13060.0
SUQ	Ismai'liya R, EGY	4250.0 6498.5
SUU	Cairo Meteo, EGY	**3957.0** *4526.0* **7317.2** *10123.0* **17632.5 18109.5**
SVA .	Athens R, GRC	2/4343.0 3/6478.8 4/8687.0 5/13047.0 6/17094.8 7/22417.0 8/25401.0
SVB .	Athens R, GRC	2/4239.4 3/6344.0 4/8704.0 5/13029.0 6/17194.4 7/22410.8
SVD .	Athens R, GRC	2/4223.0 3/6411.0 4/8536.5 5/12720.0 6/17188.0 7/22471.5 8/25535.0
SVF .	Athens R, GRC	2/4327.0 3/6444.5 4/8690.0 + 8692.5 5/12833.0 6/16995.0 7/22500.0
SVG .	Athens R, GRC	4/*8454.5* 5/12942.0 6/16981.5 7/22327.5
SVH	Iraklion R, GRC	1742.0 2799.0 3640.0
SVI .	Athens R, GRC	4/8681.0 5/12859.0 6/16966.0 7/22346.5
SVJ.	Athens R, GRC	4/8530.0 6/17147.2
SVK	Kerkyra R, GRC	1696.0 2607.0 2830.0 3613.0
SVL	Limnos R, GRC	2730.0 3793.0
SVM 6	Athens R, GRC	16903.0
SVN/.	Athens R, GRC	-/1680.0 + 1879.0 + 2590.0 + 2768.0 + 3624.4 + 3660.9 + 3772.9 2/4394.6 + 4400.8 + 4428.7 + 4431.8 3/6512.6 4/8722.0 + 8734.4 + 8740.6 + 8743.7 + 8759.2 + 8774.7 + 8777.8 + 8787.1 5/13103.9 + 13110.1 + 13119.4 + 13134.9 + 13141.1 + 13159.7 + 13196.9 6/17251.5 + 17257.7 + 17307.3 + 17310.4 + 17313.5 + 17319.7 + 17335.2 + 17353.8 7/22620.8 + 22645.6 + 22651.8 +

SVN/.	Athens R, GRC *(cont.)*	22667.3 + 22689.0 + 22701.4
SVR	Rhodes R, GRC	1824.0 2624.0 3630.0
SVT 6	Athens R, GRC	**17208.5**
SVU .	Athens R, GRC	**4/8462.0 5/13095.5 7/22585.5**
SVX	Chios R, GRC	1820.0 3743.0
SXA ..	GN Piraeus, GRC	2/3683.0 3/4227.0 5/8671.0 24/6471.0 32/3652.5 33/3712.0 34/4294.0 36/8442.0 37/12997.0
SXE	HCG Elevsis, GRC	4256.5 6360.0 8516.3 17032.0
SXH	GN Khania, GRC	3678.0 4610.0
S2D	Dhaka Air, BGD	**5129.0 10612.8**
S3D	Chittagong R, BGD	2140.0 4360.5 4366.7 4388.4 4403.9 6506.4 6509.5 6512.6 8694.0 8718.9 8734.4 8746.8 8799.5 13056.0 13103.9 13113.2 13122.5 13169.0 13190.7 17239.1 17282.5 17298.0 17316.6 17329.0 22599.1 22614.6 22636.3 22645.6 22651.8 22664.2 22695.2
S3E	Khulna R, BGD	2140.0 4231.0 4394.6 4403.9 6509.5 6515.7 6518.8 8658.0 8768.5 8784.0 8805.7 13024.0 13153.5 13159.7 13178.3 17248.4 17304.2 17338.3 22599.1 22623.9 22673.5 22679.7
S3K	Hiran Point Pilot R, BGD	1610.0 1617.0 1707.0 2046.0 2049.0 2075.0 2080.0
S3L	Chittagong Port R, BGD	2005.0
S3P	Juldia Port R, BGD	2005.0
S7Q	Victoria R, Mahe, SEY	2595.0 4349.0 4385.3 8445.0 8771.6 12660.0 13144.2 17232.9
S7Z	Victoria Air, Mahe, SEY	9909.0
S9M	Sao Tome R, STP	2680.0 2780.0 4283.0 4403.9 4431.8 6332.0 8634.0 8728.2 8759.2 12817.0 13110.1 13138.0 16966.0 17285.6 17347.6 22344.0 22620.8 22648.7
TAD	MFA Ankara, TUR	**9974.0 9992.0 10006.0 10638.0 10649.0 11114.0 13303.0 13464.2 13542.8 13833.0 13914.0 13935.0 13955.0 13982.0 14517.0 14607.0 15794.0 16023.0 16112.0 16252.0 18034.0 18064.0 18134.0 18184.0 18475.0 18802.0 18864.0 18916.0 18941.6 19052.0 19064.0 21956.0 21966.0**
TAF	Samsun R, TUR	1760.0 2760.0 4416.3 17248.4
TAH	Istanbul R, TUR	2670.0 4253.0 4407.0 6491.5 8611.5 8662.0 8749.9 8811.9 12736.5 12801.0 **13098.5** 13153.5 17008.8 17021.6 17197.3 17254.6 22548.0 22685.9
TAI	Iskenderun R, TUR	2629.0 3648.0 4416.3 22664.2
TAL	Antalya R, TUR	2693.0 4382.2 17291.8
TAM	Mersin R, TUR	2820.0 8725.1 13116.3 13147.3 17263.9 22633.2 22636.3
TAN	Izmir R, TUR	1850.0 2760.0 4357.4 6509.5 17285.6
TAO	Trabzon R, TUR	2760.0 4357.4 6509.5
TAR	Zonguldak R, TUR	2670.0 4388.4 13165.9
TAT	Canakkale R, TUR	1850.0 4376.0 8746.8 13178.3
TBA .	TN Ankara, TUR	2/4260.0 3/6395.0 4/8493.0 5/4275.0 6/6382.0 7/8572.0
TBB .	TN Ankara, TUR	5/4350.0 6/6502.0 7/8555.0
TBO .	TN Izmir, TUR	2/5291.6 3/6374.0 4/8504.0
TCR	TURBAN Istanbul R, TUR	2760.0 4267.0 6400.5 12733.0 12774.0 17035.0 22362.0
TCY .	AA Ankara, TUR	1/8137.5 4/18040.0
TEC	Puntarenas R, CTR	8472.0 13058.0
TFA	Reykjavik R, ISL	1650.0 1876.0 1890.0 4372.9 4397.7 4403.9 4413.2 6506.4 6512.6 8690.0 8731.3 8737.5 8743.7 8811.9 13069.0 13116.3 13122.5 13144.2 13159.7 16909.7 17248.4 17276.3 17307.3 17322.8 22670.4 22673.5
TFM	Neskaupstadur R, ISL	1640.0 2700.0
TFT	Hornafjoerdur R, ISL	1673.0 4372.9
TFV	Vestmannaeyjar R, ISL	1715.0 2628.0
TFX	Siglufjoerdur R, ISL	1862.0 1883.0 2600.0 4397.7 4403.9

TFZ	Isafjoerdur R, ISL	1862.0 2724.0
TIM	Limon R, CTR	3980.0 4290.0 4297.0 6380.0 8478.0 8480.0 13100.0 16873.0 17149.0
TJC/.	Douala R, CME	-/8771.6+8802.6+13181.4 6/8449.0 7/8718.0 8/13069.0
TJK	ASECNA Douala, CME	**4056.0 4787.0 7474.0 9226.0 11676.4**
TKM	Grasse R, F	1834.0 2649.0 3722.0
TLO	ASECNA Bangui, CAF	**6902.5 9287.3**
TNA/..	Pointe-Noire R, COG	-/2705.0 8/8453.0 12/12682.5
TNB 82	OTIC Brazzaville, COG	15792.2 15795.5
TNL	ASECNA Brazzaville, COG	**3898.0 8123.0 9285.0 10132.0 14462.5 14722.5 14989.0**
TNO	ASECNA Pointe-Noire, COG	**6772.0**
TRA	Libreville R, GAB	2586.0 13101.0
TRK	ASECNA Libreville, GAB	**3544.5 4464.5 6941.5**
TRP 8	Gamba R, GAB	6509.5
TTL	ASECNA N'djamena, TCD	**9217.0 12263.0**
TUA/.	Abidjan R, CTI	-/2586.0+4413.2+6512.6+8784.0+13113.2+17335.2+22670.4 3/4343.0 4/8465.0 5/13060.5 9/16947.8
TUH	ASECNA Abidjan, CTI	**5848.0 7690.0 9846.0 11486.0**
TXU	Saint-Pierre R, SPM	2038.0 2115.0 2410.0 2582.0
TYA	Cotonou R, BEN	1813.0 2320.0 2586.0 6383.0
TYE	ASECNA Cotonou, BEN	**5117.5 5222.3 7524.0**
TZH	ASECNA Bamako, MLI	**7355.0 7626.0 11515.0**
T3C	Takaronga R, Tarawa Atoll, KIR	2117.0 4388.4 8759.2
T3Z	R Bairiki feeder, Tarawa Atoll, KIR	14859.5 14916.5
T6U 24	ICRC Kabul, AFG	**20801.5 20940.5**
UAD 2	Kholmsk R, FE, URS	4245.0 6420.0
UAH	Tallinn R, ES, URS	3310.0 4285.0 **4350.0** 4351.5 6405.0 6485.0 8476.0 **8710.5** 8712.0 12723.0 **13092.5** 17077.0 **17218.5**
UAI 3	Nakhodka R, SE, URS	6407.0 8655.0 13026.5 13047.0 13067.5 17080.0 **17090.0** 22525.0
UAT	Moscow R, RU, URS	6475.0 **6499.0** 8440.6 **8480.0 8645.0 8707.5** 12739.0 12820.0 12910.0 **12930.0 12980.0 12993.0 13089.0 13091.5** 13100.8 **16992.8** 17066.0 **17228.0 17248.4 22395.0 22423.0 22493.0** 22512.0 **22567.5 22592.5** 22614.6
UAW	Makhachkala R, RU, URS	3237.5
UBA 2	Petropavlovsk-Kamchatskiy R, FE, URS	4391.5 8808.8 13181.4 17288.7 22692.1
UBC 7	Uglegorsk R, FE, URS	2720.0
UBD	Krasnovodsk R, TU, URS	3170.0
UBE .	Petropavlovsk-Kamchatskiy R, FE, URS	2/4171.0+**4351.0**+6370.0+**6505.5**+13000.0 4/8793.3+13128.7+17276.3
UBF 2	Leningrad R, RU, URS	8451.0 12855.0 17065.0 22485.0
UBJ	Baku R, AZ, URS	2098.8 4369.8 17332.1
UBN	Zhdanov R, UK, URS	3190.0 4265.0 6477.5 **6495.5 8540.0 8565.0** 8620.0 **12711.0** 12732.0 **13076.5 17220.0 22580.0**
UCA	Odessa, UK, URS	14185.0
UCD 9	Yalta R, UK, URS	2585.0
UCL	Donbass, UK, URS	21305.3

UCO	Yalta R, UK, URS	8436.0 12760.0
UCV 2	Okhotsk R, FE, URS	2560.0
UCY 2	Astrakhan' R, RU, URS	2780.0 6345.0
UCZ	Provideniya R, FE, URS	4357.4 8731.3
UDC	Żhdanov R, UK, URS	2805.0 4394.6 17356.9
UDE	Odessa R, UK, URS	3310.0 13113.2 17301.1 22599.1 22648.7
UDH	Riga R, LA, URS	**2460.0** **2535.0** 3185.0 4236.0 **6341.5** 6368.5 **6496.0** **6505.5** 8506.0 8615.0 **12671.5** 13070.0 **13082.5** **16955.0** 16997.0 **17181.0** **17197.5** **17216.0** 22455.0
UDK/2	Murmansk R, RU, URS	-/4413.2+6512.6+8774.7+13175.2+17267.0+ 22347.0+22701.4 2/3250.0+4260.0+6393.5+**6455.0**+ 8698.0+**12797.0**+**12803.0**+**12830.0**+13050.0+ **16922.0**+**17020.0**+**17170.0**+**22334.5**+**22354.5**+ **22374.5**
UDN	Novorossiysk R, RU, URS	4369.8 8762.3 13125.6 17232.9 22689.0
UDY	SAAM Novolazarevskaya, ATA	13385.0
UEK	Feodosiya R, UK, URS	6370.0 17014.0
UFA	Batumi R, GE, URS	2800.0 4357.4 8753.0 13113.2 17322.8
UFB	Odessa R, UK, URS	4230.0 6341.5 **6345.0** 6353.0 6447.0 8528.5 8593.0 8602.0 **8643.5** **12760.0** **12947.0** 12950.0 13041.0 16984.0 **17049.0** 17063.0 17155.0 **22464.0** 22555.0
UFF	Sukhumi R, GE, URS	2464.0
UFH	Petropavlovsk-Kamchatskiy R, FE, URS	3590.0 4323.0 6405.0 8451.0 8555.0 **8717.0** 12825.0 12835.4 13035.0 16990.0 17035.0 **17221.5** 22455.0
UFJ	Rostov-na-Donu R, RU, URS	13060.0
UFL	Vladivostok R, SE, URS	4285.0 6385.0 6445.0 **6495.0** 6495.5 8515.0 8520.0 8585.0 8595.0 **8709.0** **12729.0** 12955.0 **13083.5** **16955.0** 17110.0 **17175.2** **17227.0** **22350.0** 22435.0 **22590.0** **22593.5**
UFM 3	Nevelsk R, FE, URS	4345.0 4407.0 6334.5 8446.0 8808.8 13156.6 17316.6 22608.4
UFN	Novorossiysk R, RU, URS	4245.0 8571.0 **8663.0** **8706.5** **8709.0** **8711.5** **12891.0** 13040.0 13076.0 **13089.5** **16890.5** **17141.0** **17226.0** 22349.5 **22501.0** **22571.0** **22582.5**
UFO	Kholmsk R, FE, URS	2450.0 6518.8 13141.1 17310.4 22633.2
UGC	Tyumen', SW, URS	16082.0
UGE	Arkhangelsk R, RU, URS	2595.0 4357.4 8787.1 13125.6 17310.4
UGE 2	SAAM Bellingshausen, ATA	13385.0
UGH 2	Juzno R, FE, URS	4223.0 4391.5 6375.0 8557.0 8759.2 13181.4 17316.6 22679.7
UGK 5	Kaliningrad R, RU, URS	1734.2
UGN	Serdtse-Kamen' Air, FE, URS	8816.0
UGW 2	Belomorsk R, RU, URS	12860.0
UHF 3	Moscow, RU, URS	4867.0 5167.5 **7048.3** **10240.0** 10819.5 **12024.0** **12056.0** **13455.0** **14096.6** **21144.9**
UHK	Batumi R, GE, URS	4295.0 6360.0 8546.0 **8695.0** **12912.0** 12935.0 17137.0 17190.1 **17190.5** **17231.5** 22322.5
UHO 2	Yuzhno-Sakhalinsk Meteo, FE, URS	2550.0 4030.0 4480.0 8180.0 11025.0
UHZ	Kherson R, UK, URS	2099.0
UIB 2	Magadan R, FE, URS	4305.0 8530.0
UIF 2	Anadyr' R, FE, URS	6470.0
UIK	Vladivostok R, SE, URS	2605.0 4357.4 6512.6 8731.3 13100.8 17251.5 22599.1
UJB	Astrakhan' R, RU, URS	4369.8 8728.2
UJE	Moscow R, RU, URS	12810.0 12967.0
UJM 20	Moscow, RU, URS	7018.0
UJO .	Izmail R, UK, URS	3/4394.6+6518.8 5/4277.0+6386.5+8618.0+ 12965.0+16909.7
UJQ/7	Kiyev R, UK, URS	-/6420.0+8635.0+8657.0+8784.0+*12828.0*+ **12990.0**+13055.0+17015.0+**17135.0**+17301.1+ *22440.0* 7/6416.0+6460.0+8660.5+12715.0+ **17131.0**+22411.0
UJY	Kaliningrad R, RU, URS	2580.0 3737.0 6360.0 6465.0 **8454.0** 8460.5 8466.0 8605.0 8640.0 12690.0 12877.5 **12942.0** **12973.0** 13054.0 16865.0 **16870.0** **16885.7** 16927.0 **16963.0** 17152.0 22315.0 **22321.0** 22355.0 22403.0 **22573.5** **25127.0** **26158.0**

UKA	Vladivostok R, SE, URS	4241.0 **6411.0** 6430.0 **6460.0** 8535.0 8643.0 **12799.5** 12854.0 12870.0 12885.0 12933.0 13080.0 **13086.0** 16912.5 17155.0 **22405.0** **22573.0**
UKB	Riga R, LA, URS	4357.4 13113.2 17322.8
UKI	Nakhodka R, SE, URS	8768.5 17270.1
UKK 3	Nakhodka R, SE, URS	**6439.0** 8510.0 12990.0 17060.0 **22581.0**
UKQ 2	Nakhodka R, SE, URS	4394.6 8728.2 13184.4 17267.0 22608.4
UKS	SAM Barentsburg, Spitsbergen, NOR	**8150.0** **11035.0**
UKW 3	Korsakov R, FE, URS	3160.0 4283.0 6487.0 8573.0
UKX	Nakhodka R, SE, URS	6417.0 **13088.0**
ULL	Nikolayevsk-na-Amure R, FE, URS	2264.0
ULV	SA/AAMC Moscow, RU, URS	**10340.0** **10830.0**
UMN	Murmansk R, RU, URS	2666.0 4360.5 8790.2 13119.4
UMS	Moscow, RU, URS	**4876.0** 5242.0 5813.0 7010.0 13449.0 14140.9 14171.0 **19336.0** **19472.0** **21284.0**
UMV	Murmansk R, RU, URS	4307.0 **6331.5** 6400.0 6494.5 8690.0 **12661.5** 12730.0 **13071.5** 16960.0 17140.0 **25215.0** **25255.0** **25295.0**
UMZ	Valentin R, SE, URS	4343.0 6395.0 12883.0
UNI	Ventspils R, LA, URS	2670.0
UNM 2	Klaipeda R, LI, URS	2830.0 **3210.0** 4229.0 4369.8 6427.0 **6475.0** 8473.0 **8701.0** 12703.0 **12895.0** 13113.2 **17134.0** 17232.9
UNQ	Novorossiysk R, RU, URS	**12660.5** **16980.0** 22410.0
UNR 7	Severo-Kuril'sk R, FE, URS	6420.0 8446.0
UON	Baku R, AZ, URS	4307.0 6400.0
UOY	Nar'yan Mar R, RU, URS	2595.0
UPB	Provideniya R, FE, URS	3530.0 6390.0 8570.0 12720.0 17025.0
UPN	Odessa, UK, URS	14108.0
UPW 2	Liepaja R, LA, URS	16949.0
UQA 4	Murmansk R, RU, URS	8550.0 12925.0 13010.0 16922.0 17002.4 25850.0
UQB	Kholmsk R, FE, URS	3605.0 3890.0 6380.0 **6496.5** 8675.0 8680.0 **8709.5** 12678.0 13029.0 **13090.0** 16970.0 **17216.5**
UQC	Korsakov R, FE, URS	2264.0
UQK	Riga R, LA, URS	4283.0 6369.0 6509.5 **8446.0** 8545.0 8759.2 **12688.5** **12706.0** 12865.0 13187.6 17304.2 22520.0 22710.7 **25377.0**
UQX 2	Poronaysk R, FE, URS	2720.0
URB 2	Klaipeda R, LI, URS	3215.0 3730.0 4422.5 6375.0 6493.5 8541.0 8616.5 8725.1 12815.0 13184.5 **16878.0** 17050.0 **17138.0** 17313.5 22333.0 22692.1 **25133.0**
URD	Leningrad R, RU, URS	2625.0 3540.0 4315.0 4397.7 6354.0 6370.0 6425.0 **6497.5** **8575.0** **8600.0** 8687.6 **8711.5** 8725.1 8737.5 12693.0 **12901.5** **13015.0** **13030.0** 13110.1 **16970.0** **17010.0** 17115.0 **17226.5** 17245.3 22633.2
URL	Sevastopol' R, UK, URS	2695.0 6383.0 8515.0 **8580.0** 8614.0 8715.5 **12735.0** 12876.0 12970.0 12977.0 12993.0 16925.0 **17038.5** 17147.0 **17153.0** **22371.0** 22383.0 22430.0 22530.0 **22560.0** 25470.0 25986.0
UTA	Tallinn R, ES, URS	8535.0 8650.0 12755.0 17107.0 **17214.0** 22387.0
UVD	Magadan R, FE, URS	4243.0 6365.0 12658.0
UWT	Taganrog R, UK, URS	2525.0
UXN	Arkhangelsk R, RU, URS	4253.0 4330.0 4349.0 6470.0 **6497.0** **8471.0** 8549.0 8610.0 **12714.0** 12795.0 **13099.5** 16867.5 **17036.0** **17220.5** **22490.0**
UXO 4	Tevriz, SW, URS	7844.0
UZT	Mezen' R, RU, URS	3210.0
VAE	CCG Tofino, BC, CAN	2458.0
VAF	CCG Alert Bay, BC, CAN	2458.0
VAI	CCG Vancouver, BC, CAN	4235.0 **4354.0** 4385.3 6493.0 6518.8 8453.0 8737.5 12876.0 13119.4 17175.2 17254.6 22368.0
VAK	CCG Victoria, BC, CAN	2458.0
VAZ 3	Canso Lock R, NS, CAN	2134.0 2237.0 2638.0
VBA	CCG Thunder Bay, ONT, CAN	6370.0
VCA	CCG Charlottetown, PEI, CAN	2530.0
VCO	CCG Sydney, NS, CAN	2530.0

VCS	CCG Halifax, NS, CAN	4285.0 4410.1 6491.5 6518.8 8440.0 8787.1 12874.0 13090.5 13138.0 16948.5 17242.2 22387.0
VER	CF Ottawa, ONT, CAN	**9075.0 13906.1 14371.0 15621.1 15837.5 19482.5 20741.1**
VFA	CCG Inuvik, NWT, CAN	2558.0 4363.6 6335.5 12671.0
VFC	CCG Cambridge Bay, NWT, CAN	2558.0 4363.6 6351.5
VFF	CCG Iqaluit Meteo, NWT, CAN	*3253.0* 4236.5 6335.5 6512.6 *7710.0* 8443.0 8753.0 12671.0 13100.8 17335.2
VFR	CCG Resolute, NWT, CAN	4334.0 6438.0 8793.3
VFU 6	CCG Coppermine, NWT, CAN	4363.6
VHI	RAN Darwin TS, NT, AUS	6449.0 12982.0
VHI .	RAN Darwin, NT, CAN	3/6393.5 4/8512.7 5/12750.0 6/17084.0 7/22348.5 8/25175.0
VIA	Adelaide R, SA, AUS	4272.5 4413.2 8768.5 13181.4
VIB	Brisbane R, QLD, AUS	4230.5 4400.8 6351.5 13187.6
VIC	Carnarvon R, WA, AUS	4323.0
VID	Darwin R, NT, AUS	4272.5 4400.8 4413.2 8487.0 8762.3 13181.4 13187.6
VIE	Esperance R, WA, AUS	4323.6
VII	Port Kennedy R, Thursday Island, AUS	4228.5 6333.5
VIM	Melbourne R, VIC, AUS	4228.5 4407.0 6333.5 13178.3
VIO	Broome R, WA, AUS	4323.6
VIP/..	Perth R, WA, AUS	-/4400.8 + 8734.4 + 8762.3 + 13178.3 + 13187.6 + 17242.2 + 22630.1 3/8597.0 4/12994.0 5/16947.6 6/22315.5 7/4229.0 31/**4352.5** 32/**6497.0** 33/**8707.5** 34/**13074.0** 35/**17200.0** 40/**13076.0**
VIR	Rockhampton R, QLD, AUS	4255.6 6333.5
VIS/..	Sydney R, NSW, AUS	-/4369.8 + 4407.0 + 8722.0 + 8805.7 + 13107.0 + 13193.8 + **17202.0** + 17236.0 + 17260.8 + 22602.2 + 22664.2 5/12952.5 6/17161.3 26/8521.0 35/8452.0 42/22474.0 43/22495.0 49/12979.5 53/4245.0 61/**4356.5** 62/17138.4 63/**6501.0** 65/**8711.5** 67/**13078.0** 69/**17204.0** 71/**22568.0**
VIT	Townsville R, QLD, AUS	4255.6 4413.2 8768.5 8784.0 13107.0 13193.8
VIX .	RAN Canberra, ACT, AUS	2/4286.0 3/6428.5 4/8478.0 5/12907.5 6/16918.6 7/22485.0
VJB	RFDS Derby, WA, AUS	2792.0 5300.0 5850.0 6925.0
VJC	RFDS Broken Hill, NSW, AUS	2020.0 4055.0 4635.0 5130.0 6920.0
VJD	RFDS Alice Springs, NT, AUS	2020.0 5410.0 6950.0
VJI	RFDS Mount Isa, QLD, AUS	2020.0 5110.0 5445.0 6965.0
VJJ	RFDS Charleville, QLD, AUS	2020.0 4045.0 4980.0 5227.0 6845.0 6945.0
VJK	RFDS Meekatharra, WA, AUS	2280.0 4010.0 5260.0 6880.0
VJN	RFDS Cairns, QLD, AUS	2020.0 2260.0 5145.0 5300.0 5865.0 7465.0
VJQ	RFDS Kalgoorlie, WA, AUS	2656.0 5010.0 5360.0 6825.0
VJT	RFDS Carnarvon, WA, AUS	2280.0 5045.0 6890.0
VJY	RFDS Darwin, NT, AUS	4010.0 6840.0 6975.0
VKF	RFDS Wyndham, WA, AUS	2805.0 5300.0 6945.0
VKL	RFDS Port Hedland, WA, AUS	2280.0 4030.0 6960.0
VLV	OTC Mawson, ATA	**11490.0**
VMA	RAAF Melbourne, VIC, AUS	**23645.0 26130.0**
VNZ	RFDS Pt. Augusta, SA, AUS	2020.0 4010.0 5145.0 5845.0 6890.0 8165.0 8171.0
VPS/..	Victoria Island R, HKG	-/2060.0 + 4388.4 + 4407.0 + 6512.6 + 6515.7 + 8731.3 + 8749.9 + 13181.4 + 13193.8 + 17310.4 + 17344.5 + 22645.6 + 22648.7 8/4232.5 22/22536.0 28/**6503.0** 35/8539.0 36/8584.0 37/8543.0 38/**8710.0** 60/13020.4 61/13044.0 63/**13077.5** 64/**13083.0** 79/16987.0 80/17096.0 82/**17212.0** 83/**17222.0** 97/**22564.0**
VRN ..	Victoria Island R, HKG	35/8619.0 60/13031.0 80/17192.0
VRT	Hamilton R, BER	2547.0 2550.0 4277.0 4385.3 6487.5 6512.6 8449.4 8768.5 12709.2 13159.7 16947.6 17285.6
VTG .	IN Bombay, IND	3/2072.0 4/4268.0 5/6467.0 6/8634.0 7/12808.5 8/16938.0 9/22378.0
VTK	IN Tuticorin, IND	8590.0 8596.5 13430.0 14400.0 14450.0

VTP/.	IN Vishakhapatnam, IND	-/16695.0 3/2295.0 4/4238.0 5/6418.0 6/8646.0 7/12840.0
VTU 4	Bombay, IND	13598.2
VUJ 9	Bhavnagar Port R, IND	2085.0 2103.0
VUK 5	Bedi Port R, IND	1760.0
VVD ..	Delhi Meteo, IND	53/**3192.5** 56/**6978.0** 57/**7580.0** 62/**12075.0** 69/19400.0
VWA 1	Ramnagar Port R, IND	1650.0 4279.0 6388.0 8595.5 12820.0
VWA 2	Hugli Port R, IND	1650.0 4279.0
VWA 509	Haldia Port R, IND	1650.0 4279.0
VWB	Bombay R, IND	2003.5 4316.0 8514.0 8630.0 8756.1 12710.0 12966.0 13128.7 17034.0 22551.0
VWC	Calcutta R, IND	2003.5 4286.0 8526.0 12745.5
VWG	Goa R, IND	2047.5
VWK	Kandla R, IND	2037.5
VWL	Mangalore R, IND	2037.5
VWM	Madras R, IND	2042.5 4301.0 8674.4 8722.0 12718.5 13150.4 16975.0
VWN	Cochin R, IND	2085.0
VWO	Okha R, IND	2085.0
VWP	Port Blair R, IND	2037.5
VWT	Tuticorin R, IND	2003.5
VWV	Vishakhapatnam R, IND	2097.0 8510.0
VWY	Porbandar R, IND	2097.0
VWZ	Ratnagiri R, IND	2042.5
VXA	CF Edmonton, ALTA, CAN	6705.0 6750.0 9006.0 15035.0 17995.0 18027.0
V8L 2	SHELL Bandar Seri Begawan R, BRU	4400.8
WAH	Saint Thomas R, VIR	2506.0 2585.0 4357.4 4382.2 6515.7 6518.8 8728.2 8743.7 13100.8 13103.9 17236.0 17239.1 22664.2
WBL	Buffalo R, NY, USA	2514.0 2550.0 2582.0 4382.2 4410.1 8796.4
WCC	Chatham R, MA, USA	2036.0 4238.0 4268.0 4331.0 **4356.5** 6333.5 6337.0 6376.0 **6504.5** 8586.0 8630.0 **8712.5** **8715.0** 12847.0 12925.5 12961.5 13033.5 **13081.5** **13090.0** 16904.9 16933.2 16972.0 16973.5 **17207.5** **17216.0** 22348.5 22366.5 22518.0 22521.0 **22571.5**
WCM	Withamsville R, OH, USA	2086.0 2782.0 4063.0 6515.7 8213.6 12333.1 16518.9
WCT	Loiza R, PTR	2530.0
WDU 23	Kodiak R, ALS	2309.0
WDU 26	Cordova R, ALS	2312.0 2397.0
WDU 29	Sitka R, ALS	2400.0
WFA	Tampa R, FL, USA	2466.0 2550.0
WFK ..	USIA New York, NY, USA	48/**18542.5** 54/**14638.0**
WFN	Jeffersonville R, IN, USA	2086.0 2782.0 4115.7 6518.8 8725.1 13103.9 17291.8
WGG 53	Cold Bay R, ALS	2312.0
WGG 56	Ketchikan R, ALS	2397.0
WGG 58	Juneau R, ALS	2400.0
WGK	Saint Louis R, MO, USA	2086.0 2782.0 4410.1 6212.4 8737.5 13103.9 17291.8
WKR	Nome R, ALS	2400.0
WLC	Rogers City R, MI, USA	2137.5 *2195.5* 2514.0 2550.0 2582.0 4369.8 4382.2 4410.1 *5898.6* 8796.4
WLO	Mobile R, AL, USA	2055.5 2572.0 4256.0 4257.5 **4343.0** **4352.0** **4355.0** 4369.8 4397.7 4413.2 **6344.0** **6416.0** 6446.0 6446.5 **6499.0** **6499.5** **6501.5** *6852.0* 8445.0 8445.5 8473.5 8474.5 **8514.0** **8534.0** 8658.0 **8707.0** **8707.5** **8712.0** **8717.5** 8790.2 8805.7 8808.8 *9157.5* 12660.0 12704.5 12705.5 **12886.5** 12992.0 13024.9 **13073.5** 13078.5 **13083.5** **13085.5** **13091.0** **13096.0** **13098.0** 13134.9 13175.2 13178.3 16968.5 16997.6 **17021.6** 17172.4 **17199.5** **17202.5** **17204.5** **17209.5** **17211.5** **17217.0** **17222.0** **17224.0** 17251.5 17329.0 17356.9 22318.5 22320.0 **22487.0** **22564.0** **22568.5** **22589.0** **22591.0** **22592.0** 22676.6 22689.0 22707.6 **25222.5** 25348.0
WMI	Lorain R, OH, USA	4382.2 4410.1 8796.4

WNU	Slidell R, LA, USA	2048.0 4294.0 4310.0 6326.5 6389.7 **6495.0** 8525.0 8570.0 8688.0 8705.5 12826.5 12869.0 13011.0 **13099.5** 16861.7 17038.0 17117.6 **17225.5 22431.0** 22458.0
WOM	Pennsuco R, FL, USA	2442.0 2490.0 2514.0 2566.0 4363.6 4391.5 4407.0 4425.6 8722.0 8731.3 8746.8 8759.2 8793.3 8811.9 13116.3 13122.5 13125.6 13144.2 13169.0 13190.7 17232.9 17257.7 17260.8 17263.9 17279.4 22639.4 22642.5 22661.1
WOO	Ocean Gate R, NJ, USA	4385.3 4388.4 4403.9 4422.5 **8051.5** 8740.6 8749.9 8762.3 8796.4 13107.0 13128.7 13131.8 13184.5 13190.7 17245.3 17291.8 17310.4 17325.9 22596.0 22608.4 22623.9 22704.5
WPD	Tampa R, FL, USA	4274.0 6365.5 8473.0 8615.5 **8708.5** 13051.5 17169.5
WQB 35	USLRC Akron, OH, USA	15780.0
WSC	Tuckerton R, NJ, USA	4316.0 6484.5 8664.0 8680.0 12879.5 13063.5 13074.0 16916.5 17106.5 17200.0 22418.0 22564.0
WWV	Fort Collins TS, CO, USA	2500.0 5000.0 10000.0 15000.0 20000.0
WWVB	Fort Collins TS, CO, USA	60.0
WWVH	Kihei TS, Maui Island, HWA	2500.0 5000.0 10000.0 15000.0
XDA	Mexico City R, MEX	8567.0 8575.5 8590.5 8626.0 8796.4 8805.7 12740.0 12836.0 12855.0 13014.5 13125.6 13175.2 16914.5 16942.5 17120.5 17140.0 17242.2 17273.2 22385.0 22400.0 22471.0 22516.0 22670.4 22698.3
XFA	Acapulco R, MEX	2600.0 4292.0 4363.6 6414.5 8514.0 8743.7 12752.0 13165.9 16935.5 22465.0 22670.4
XFB	Ciudad del Carmen R, MEX	2722.0 4307.5 6435.0 8562.5 8743.7 12675.0
XFC	Cozumel R, MEX	2802.0 4268.0 4363.6 4379.1 6390.0 6512.6 6515.7 8580.5 8743.7 12824.0 17273.2
XFE	Ensenada R, MEX	2725.0 4307.5 4394.6 6390.0 6515.7 8562.0 8796.4 13006.5 13165.9 16927.5
XFF	Coatzacoalcos R, MEX	2655.0
XFF 3	PEMEX Minatitlan R, MEX	4394.6
XFK	La Paz R, MEX	2665.0 4268.0 6350.0 6512.6 8505.0 12675.0 13165.9 22698.3
XFK 2	PEMEX La Paz R, MEX	4394.6
XFL	Mazatlan R, MEX	2805.0 4250.0 4379.1 6484.5 8470.0 8796.4 12703.0 17115.5
XFM	Manzanillo R, MEX	2685.0 4225.0 6354.0 8568.5 12829.5
XFN	Progreso R, MEX	2725.0 4225.0 6358.0 8621.0 8805.7 12729.0 17134.0 17282.5 22511.0
XFP	Chetumal R, MEX	2725.0 4292.0 4394.6 6439.0 6512.6 8595.5 12843.0
XFQ	Salina Cruz R, MEX	2745.0 4268.0 6360.0 8631.0 12708.0
XFS	Tampico R, MEX	2756.0
XFS 4	PEMEX Tecolutla R, MEX	4394.6 6512.6 6515.7 17242.2 17273.2 22698.3 22710.7
XFS 5	PEMEX Tuxpan R, MEX	6506.4 6512.6 17242.2 22670.4 22698.3
XFU	Veracruz R, MEX	2805.0 4285.0 4394.6 6367.0 8656.0 8805.7 12775.0 22477.0
XFU 2	PEMEX Veracruz R, MEX	6506.4 6515.7 17242.2 17273.2 22670.4 22710.7
XFY	Guaymas R, MEX	2710.0 4271.0 6435.0 8613.0 8805.7 12815.0
XPH	USAF Thule AFB, Uummannaq, GRL	6738.0 13201.0
XSA 2	Nanjing R, CHN	4331.0 8645.0
XSD	Yingkou R, CHN	4343.0 6370.0 8629.0 12740.0
XSE	Qinhuangdao R, CHN	4240.0 6442.0 8484.5 12889.5
XSF	Lianyungang R, CHN	4326.0 6477.5 8622.0
XSG/.	Shanghai R, CHN	-/2610.0+4271.0+4319.0+4360.5+4369.8+4422.5+6414.5+6452.0+6506.4+8502.0+8753.0+8771.6+8805.7+12661.5+12871.5+12898.0+13107.0+13138.0+17030.0+17103.2+**17220.0**+17254.6+17301.1+22312.5+22363.0+22401.0+22614.6+22651.8 3/8665.0 4/8451.0 7/12856.0 8/16916.5 22/4290.0 24/6454.0 26/8487.0 28/12954.0 29/17002.4
XSH	Basuo R, CHN	4278.0 6370.0 8634.0 12912.0

XSH 48	Dandong R, CHN	4271.0 8459.0
XSI	Sanya R, CHN	4310.0 6435.5 8651.0 12804.0
XSJ	Zhanjiang R, CHN	4295.0 6474.0 6489.0 8541.0 8614.0 12890.0 16968.8 22390.0
XSK	Beihai R, CHN	4244.0 6379.5 8530.0
XSK 4	Haimen R, CHN	4309.2 6435.5 8671.0
XSL	Fuzhou R, CHN	4343.0 6407.5 8598.0 12662.0 12727.5
XSL 22	Fangcheng R, CHN	4260.0 8650.0
XSM	Xiamen R, CHN	4314.0 6458.0 8453.0 12876.0
XSN	Ningbo R, CHN	4222.0 6383.0 8582.0
XSO	Wenzhou R, CHN	4293.0 6449.5 8586.0
XSO 4	Zhoushan R, CHN	4269.0 6340.0 8613.0
XSP	Shantou R, CHN	4228.0 6463.5 8457.0 12734.0
XSQ/.	Guangzhou R, CHN	-/2620.0 + 4288.0 + 4340.0 + 4366.7 + 4385.3 + 4425.6 + 6390.0 + 6461.0 + 6515.7 + 8455.0 + 8514.0 + 8624.0 + 8671.0 + 8746.8 + 8762.3 + 8784.0 + 12973.0 + 12997.0 + 13054.0 + 13119.4 + 13131.8 + 13175.2 + 17080.0 + 17239.1 + 17273.2 + 22351.5 + 22525.0 + 22636.3 + 22673.5 4/8490.0 + 12700.0 + 16950.0 + 17091.0 7/12877.0 + 16884.5 + 22452.0
XSR	Haikou R, CHN	2710.0 4266.0 6400.5 8702.0 12705.0
XST	Qingdao R, CHN	4334.0 6369.0 8546.0 12790.0
XSU	Yantai R, CHN	2627.0 4274.0 4382.2 6428.5 8574.0 8765.4 12817.5 13100.8 17325.9
XSV	Tianjin R, CHN	2600.0 2750.0 4283.0 4372.9 4400.8 4428.7 6484.5 6515.7 8600.0 8617.0 8756.1 8765.4 8796.4 12822.0 12969.0 13116.3 13147.3 16862.5 17132.0 17260.8 17332.1 22318.5 22487.0 22596.0
XSW	Kaohsiung R, TAI	4338.0 8511.0 8582.0 8632.0 12727.5 12864.0 16940.5 17035.4 22326.0 22336.0
XSX	Keelung R, TAI	8445.0 8506.0 12695.5 12785.0 12802.3 17011.0 17053.0 22459.0
XSY	Hualien R, TAI	8546.0
XSZ	Dalian R, CHN	4253.0 4305.0 6333.5 8678.0 8694.0 12710.0 12799.5 17126.0
XTU	ASECNA Ouagadougou, BFA	**3781.0 4632.0 4732.0 6775.0**
XUK .	Kompong Som Ville R, CBG	3/8480.0 + 8680.0 4/4342.0
XVB 31	PTT Hanoi, VTN	**13855.0**
XVG ..	Hai Phong R, VTN	4/2696.0 + 2747.0 + 4363.6 7/16945.0 8/12900.0 9/8470.0 22/4315.0
XVN	Hanoi Meteo, VTN	**7512.0 7972.0 12096.5 14823.0**
XVN 3	Nha Trang R, VTN	8694.0
XVN ..	VNA Hanoi, VTN	**8/13656.0 26/9330.0 36/15744.0 37/10600.0 + 21200.0 48/18264.0**
XVR 4	Vung Tau R, VTN	2653.0 2845.0 4394.6 4400.8
XVR 94	PTT Ho Chi Minh Ville, VTN	**18932.5**
XVS .	Ho Chi Minh Ville R, VTN	8/8590.0 9/13042.5
XVT 5	Da Nang R, VTN	8570.0
XVZ	Ho Chi Minh Ville Air, VTN	**10146.0**
XXG	Macao R, MAC	8469.0
XYR .	Yangon R, MYA	6/4292.0 7/8441.0 8/12867.0 9/17189.6 24/22375.0
YAB 8	PTT Kabul, AFG	**16235.2 16236.6**
YAD 4	PTT Kabul, AFG	**10859.0**
YAV	Kabul Air, AFG	**11065.0**
YBF 2	Medan, INS	**10430.0**
YBL	Padang, INS	4563.0
YBW	Padang, INS	6850.0
YI. ..	INA Baghdad, IRQ	**L68/5867.0 L71/10162.5 L73/14373.0 O72/13524.0 X70/14699.0 X75/7565.0**

YIR	Basrah Control R, IRQ	4220.0 6330.0 8440.0 12660.0 16880.0 16906.0 22338.0
YJM/.	Port-Vila R, Efate Island, VUT	-/2168.0 + 4385.3 + 8771.6 3/12678.0 4/4343.0 6/6344.0 8/8502.0
YKI	SCOTC Tartus R, SYR	2230.0 2644.0 4263.5 6353.0 8472.0 12699.0 16951.0
YKM 5	SCOT Baniyas R, SYR	6493.0 8667.0 12987.0
YKM 7	Al Ladhiqiyah R, SYR	3624.0 4391.5 8625.0 8740.6 12728.0 13113.2 17338.3
YKO	Tartus R, SYR	2662.0 8756.1 13134.9
YMA 20	Ankara Meteo, TUR	*3377.0* **3550.0** *6790.0* **10424.0**
YMB 20	Bandirma Meteo, TUR	3636.0 **4560.3** 6966.0 **9120.6**
YOG 37	Bucharest Meteo, ROU	**5400.0**
YOG 59	ROMPRES Bucharest, ROU	**6972.0 13944.0**
YOJ 27	ROMPRES Bucharest, ROU	**9797.0**
YOM 21	ROMPRES Bucharest, ROU	**12110.0**
YOV 28	ROMPRES Bucharest, ROU	**21807.5**
YQI/.	Constanta R, ROU	-/2748.0 + 12804.0 2/4323.5 3/6473.5 4/8459.0 5/12757.0 6/17037.0 7/22448.0
YRR .	Bucharest Meteo, ROU	2/4002.0 + **8004.0 4/5731.0**
YUR/.	Rijeka R, YUG	-/2574.0 + 2585.0 + 4379.1 + 4413.2 + 6509.5 + 6518.8 + 8716.0 + 8746.8 + 8749.9 + 8808.8 + 13172.1 + 13187.6 + 17229.5 + 17263.9 + 17313.5 + 22605.3 + 22611.5 + 22713.8 2/4346.0 3/8700.0 4/8445.0 5/12780.5 6/12907.5 7/16942.8 8/17045.6 9/22443.0
YUS	Split R, YUG	2221.0 3670.0 4357.4 6515.7 8784.0 13181.4 17285.6
YUW	Bar R, YUG	2752.0 4407.0 6506.4 8716.0 8799.5 13119.4 17347.6
YUX	Dubrovnik R, YUG	2221.0 3670.0
YVG	La Guayra R, VEN	2120.0 4352.0 4416.3 6351.5 8461.0 8784.0 12817.5 13125.6 17141.6 17313.5 22642.5
YVTO	Caracas TS, VEN	5000.0
YWM	VN Maracaibo, VEN	**13502.0 17555.0** 18990.0 **20401.7**
YZ./.	TANJUG Belgrade, YUG	**A9/10278.8 D/7658.0 D6/7592.0 D7/7806.0 D9/7996.0 I/18050.0 I4/16343.0 J/20204.0 J3/11604.0 J4/19865.5 J5/13440.0 J6/15705.0 J8/17610.0 O7/12212.5**
Y2N 50	Berlin, D	**8100.0**
Y3L	Potsdam Meteo, D	**7980.0**
Y5M	Rügen R, D	**146.0** 1677.0 1680.0 1716.0 1719.0 2627.0 2630.0 2662.0 2665.0 2812.0 2815.0 4233.5 4240.0 **4242.5** 4260.0 4265.0 4313.0 **4353.0 4356.5** 4369.8 4376.0 4385.3 4413.2 6343.0 **6358.5** 6428.5 6449.5 6466.0 **6505.0** 8443.0 8463.0 8584.0 **8608.5** 8660.0 **8696.0** 8705.0 8722.0 8743.7 8796.4 8811.9 12681.5 12702.0 12745.0 12860.5 **12909.0** 13062.5 **13092.0** 13103.9 13110.1 13116.3 13196.9 16892.9 16907.3 16965.0 17000.0 17100.0 **17183.0 17210.0** 17288.7 17319.7 17332.1 17353.8 22334.5 22393.0 **22401.0** 22422.0 22437.0 22481.0 22545.0 22550.0 **22581.0** 22654.9 22667.3 22673.5 22685.9 25069.0 25308.0 26455.0
ZAA/6	ATA Tirana, ALB	-/7850.0 + **15700.0 6/9133.0** + **18266.0**
ZAD/2	Durres R, ALB	-/2730.0 + 4360.5 + 8731.3 + 13116.3 + 17350.7 + 22673.5 2/4220.0 + 6434.0 + 8696.0 + 12690.0 + 17173.0
ZAO 3	PTT Tirana, ALB	**9388.0 28164.0**
ZAS	Sarande R, ALB	6310.5 6434.0
ZAT	ATA Tirana, ALB	**9430.0 18860.0 28290.0**
ZAV	Vlore R, ALB	4372.9
ZAY	ATA Tirana, ALB	**10435.0 20870.0**
ZBI	Georgetown R, ASC	2752.0 2755.0 8737.5 8740.6
ZBM	Saint George's Harbour R, BER	2582.0
ZBP	Adamstown R, PTC	2162.0 12110.0

ZCK	Kowloon Air, HKG	**17417.0**
ZEN ..	AFP Victoria Island, HKG	**33/7542.5 64/13866.0**
ZHH	Jamestown R, SHN	3162.0 4397.7 8737.5 12963.5 13150.4
ZHH 46	C+W Jamestown, SHN	10138.0
ZKJ	Penrhyn R, CKH	2012.0
ZKLF	Auckland Meteo, NZL	*5807.0 9459.0 13550.0 16340.1*
ZKN	Alofa R, NIU	2207.0
ZKO	Aitutaki R, CKH	2012.0
ZKR	Avarua R, Rarotonga I., CKH	2207.0 8449.0 8793.3 13165.9
ZKS	RNZAF Rarotonga, CKH	11224.0 18012.0
ZLB/.	Awarua R, NZL	-/2423.0 2/4277.0 3/6393.5 4/8504.0 5/12740.0 6/17170.4 7/22533.0
ZLC	Waitangi R, Chatham Is., NZL	2104.0
ZLD	Auckland R, NZL	2207.0
ZLK 43	USN Christchurch, NZL	**12118.0**
ZLO .	RNZN Waiouru, NZL	3/6339.8 4/8598.4 5/12719.8 6/16877.5 7/22379.3
ZLP .	RNZN Waiouru, NZL	2/4250.0 3/6436.8 4/8678.0 5/12943.5 6/17128.5 7/22408.3
ZLW	Wellington R, NZL	2153.0 2601.0 4379.1 6506.4 8737.5 13125.6 17248.4 22633.2
ZLX 44	GPO Wellington, NZL	16065.0
ZOE 22	Gough Island Meteo, TRC	13425.0
ZPA	Asuncion R, PRG	4357.4
ZPB	Asuncion R, PRG	8805.7
ZPC	Asuncion R, PRG	13193.8
ZPD	Asuncion R, PRG	17301.1
ZPK	Asuncion R, PRG	4301.0 4307.0 4328.0 4337.0 6390.0 6397.0 6481.0 8534.0 8614.0 8674.0 12813.0 12903.0 12921.0 12984.0 13011.0 17084.0 17204.0 17228.0
ZPK	PN Asuncion, PRG	**17592.0**
ZRD 60	Cape Town, AFS	6903.0
ZRH/.	SAN Cape Town, AFS	-/**8070.0+8471.0+9265.0+18035.0+20910.0+22860.0** 2/4244.2 4/8604.3 5/12692.2 6/17004.4 7/22393.2
ZRO .	Pretoria Meteo, AFS	2/*7508.0*+**7512.0** 3/*13538.0*+**13542.0** 4/*18238.0*+ **18242.0** 5/*4014.0*+**4018.0**
ZRP	Sanae Base, ATA	11145.0 16425.0 18975.0
ZRQ/.	SAN Cape Town, AFS	-/**12693.0** 2/4245.8 4/8606.0 5/12693.8 6/17006.0
ZRS	PTT Transvaal Cove, MRN	16300.0
ZSA 2.	Cape Agulhas R, AFS	21/1710.0 22/1750.0 26/2593.0 29/2783.0
ZSC	PTT Cape Town, AFS	**9385.5 14402.0** 14887.0 20930.0
ZSC ..	Cape Town R, AFS	6/8688.5 7/17164.8 9/12698.0 20/22347.5 21/6379.5 22/8449.0 23/12709.0 25/4369.8 26/8731.3 27/13125.6 28/17254.6 29/22605.3 33/4317.0 34/6478.0 36/6467.0 37/8502.0 38/12772.5 39/16890.8 40/22455.0 41/25277.0 42/8461.0 43/12772.0 44/17018.0 45/4261.0 46/4291.0 47/6423.0 61/4353.5 62/8717.0 63/13093.0 64/17206.5 65/22593.0
ZSD..	Durban R, AFS	37/4376.0 38/8740.6 41/17332.1 42/22611.5 43/4242.5 45/8576.5 46/13028.0 47/17075.0 49/4240.0 50/8436.5 51/12663.0 52/16874.0 56/13172.1
ZSE 2.	East London R, AFS	21/1710.0 22/1750.0 26/2593.0 29/2783.0
ZSJ .	SAN Cape Town, AFS	2/4283.0 3/6386.5 4/8566.0 5/12849.0 6/17132.0 7/22533.0
ZSL 2.	Lüderitz R, NMB	20/1700.0 21/1710.0 22/1750.0 23/1765.0 25/2593.0 26/2607.0 27/2716.0 28/2761.0 29/2783.0
ZSM 2.	Cape Columbine R, AFS	21/1710.0 22/1750.0 26/2593.0 29/2783.0
ZSN	Cape Town R, AFS	2593.0
ZSQ 2.	Port Elizabeth R, AFS	22/4363.6 23/8725.1
ZSV ..	Walvis Bay R, NMB	4/1765.0 6/2607.0 7/2783.0 24/1700.0 26/2593.0 29/17254.6 31/4357.4 32/8718.9 33/13125.6
ZUM 273	Bronkhorstspruit, AFS	5125.0
ZUS 201	PB Skukuza, AFS	5190.0

ZXA 4	Tedut R, B	4379.1 8740.6 13122.5
ZXF 3	Bavit R, B	4379.1 8740.6 13122.5
ZZQ 8	Denor R, B	4379.1 8740.6 13122.5
Z2F 1	Yugoslav E Harare, ZWE	**19228.0**
3AC ..	Monte Carlo R, MCO	4/4363.6 5/4394.6 6/6509.5 8/8728.2 9/8743.7 12/13172.1 13/13070.0 16/17251.5 17/17192.0 18/8702.0 22/22651.8 32/22500.0
3BA .	Port Louis R, MAU	4/8554.0 5/12831.0
3BB	Port Louis Harbour R, MAU	4403.9 8802.6 13134.9 17288.7 22667.3
3BM .	Port Louis R, MAU	3/6351.5 5/12988.5 6/16978.4
3BR	Plaine Corail Air, ROD	11124.5
3BT/.	Vacoas Meteo, MAU	-/3650.0+5820.0+10100.0 2/**3188.0** 3/**7693.0** 4/**15955.0**
3BZ	Plaisance Air, MAU	**9195.0 9378.5 9970.0**
3CA 4	Bata R, GNE	4244.0
3CA 5	Malabo R, GNE	4337.0
3CA 6	Malabo R, GNE	17165.6
3CA 7	Malabo R, GNE	8706.0
3DP	Suva R, FJI	2111.0 4372.9 6509.5 8690.0 8746.8 12700.0 13103.9
3MA ..	CNA Taipei, TAI	22/**13563.0** 23/*19680.0* 24/*15878.0* 25/*14685.0* 26/**7695.0**+*13766.0* 28/**10960.0** 29/*5117.0* 30/*7330.0* 34/*9430.0* 35/**16224.0** 36/*22850.0*
3VA 71	TAP Tunis, TUN	**14800.0**
3VB	Bizerte R, TUN	1687.4 2210.0
3VF 40	TAP Tunis, TUN	**13610.0**
3VM	Mahdia R, TUN	1696.4 1771.0
3VP/.	Sakhira R, TUN	-/2221.0 6/4251.0 7/8534.0 8/12806.0
3VS	Sfax R, TUN	1672.4 2719.0
3VT	Tunis R, TUN	1768.4 2670.0
3VW 1	Bizerte Port R, TUN	1637.0
3XA	Conakry Air, GUI	**7610.0**
3XC .	Conakry R, GUI	2/6383.0 4/1813.0 5/2586.0 6/2805.0
3XD	Kankan Air, GUI	7626.0
3XO ..	Kamsar R, GUI	5/2586.0 6/1813.0 7/2800.0 27/6383.0
4OC .	TANJUG Belgrade, YUG	2/5240.0 3/5112.0
4PB	Colombo R, SLK	4366.7 4376.0 4388.4 6509.5 8473.0 8725.1 8743.7 12925.5 13175.2 17045.6 17356.9
4QQ 217	DW Trincomalee, SLK	**21787.0**
4UA	UNO Rawalpindi, PAK	**20465.7**
4UN	UNO Jerusalem, ISR	**9157.0**
4UNQ	UNIFIL Enn Naqoura, LBN	**15994.3**
4UZ	UNO Geneva, SUI	**7887.0 10461.0 15992.0 16234.3 19821.5 19823.9 20734.0**
4WD 3	Hodeidah R, YEM	4230.0 8588.0 12855.8
4XA	Elat R, ISR	2649.0 2656.0 3656.0 3765.0
4XD	Potash R, ISR	1873.0 1890.0
4XO	Haifa R, ISR	2649.0 3656.0 4238.0 4366.7 4385.3 4410.1 4425.6 6430.0 6470.5 6512.6 6515.7 8485.0 8694.0 8718.9 8731.3 8753.0 8799.5 12860.0 13051.5 13110.1 13119.4 13138.0 13144.2 17060.0 17146.4 17257.7 17270.1 17282.5 17316.6 22491.0 22605.3 22614.6 22645.6 26103.0
4XT	Tel Aviv R, ISR	1918.0 3765.0
4XT 2	Genosar R, ISR	1708.0 2160.0
4XT 3	Tiberias R, ISR	1708.0 2160.0

4XT 4	En-Gev R, ISR	1708.0 2160.0
4XZ	IN Haifa, ISR	2800.0 4289.0 6379.0 8437.0 10046.0 12984.0 14450.0 15023.0 15050.0 17050.5 19419.0 22330.5
5AB	Benghazi R, LBY	2513.0 2816.0 4422.5 6518.8 8450.0 8805.7 12660.0 13193.8 17291.8 22698.3
5AF	Tripoli Air, LBY	**2950.0 5317.5 5900.0 18388.6 19822.5**
5AH	Benina Air, LBY	9228.0
5AL	ARGOIL Tobruk R, LBY	4241.0 8480.0 16963.0
5AT	Tripoli R, LBY	2197.0 2320.0 2418.0 4413.2 4431.8 6506.4 6512.6 8515.0 8771.6 12680.0 13107.0 17263.9 22633.2
5B./..	Nicosia R, CYP	A/2670.0 + 2700.0 + 4347.5 + 8465.0 + 8623.0 + 12666.5 + 12931.0 + 16884.0 + 17013.0 + 22365.0 A22/4372.9 A24/4397.7 A26/4434.9 A34/6512.6 A42/8737.5 A44/8771.6 A46/8777.8 A48/8805.7 A52/13100.8 A54/13122.5 A56/13190.7 A62/17239.1 A64/17329.0 A72/22630.1 A74/22648.7 C68/14564.0 + 29128.0 C84/17387.0
5HD	Dar es Salaam Air, TZA	**7990.5 9446.0 11174.7**
5IP	Dar es Salaam, TZA	5085.0
5IP 23	Bukoba, TZA	5085.0
5KM	CN Bogota, CLM	**11053.0 17522.0** 18990.0 **20157.7**
5LA 28	VoA Monrovia feeder, LBR	18515.0
5NK	Kano Air, NIG	**7342.0 7817.0 11440.0**
5NL	Lagos Air, NIG	**9105.0 10391.0**
5OW/..	Lagos R, NIG	-/2755.0 + 4425.6 + 6506.4 + 6518.8 + 8768.5 + 8774.7 + 13134.9 + 13193.8 + 16861.5 + 17307.3 + 17353.8 + 22599.1 + 22611.5 6/6411.0 8/8698.0 13/13065.5 17/17199.0
5OZ 2.	Port Harcourt R, NIG	22/2511.0 + 2630.0 23/8461.5 + 8490.0 + 12696.5 + 12723.0 + 12935.5 + 16923.6 + 16942.0
5RD	Tolanaro R, MDG	2712.0 4372.9
5RL	Antseranana R, MDG	2712.0 4400.8
5RN	Nosy Be R, MDG	2652.0 4372.9
5RO	Mahajanga R, MDG	2579.0 4360.5
5RS	Toamasina R, MDG	2733.0 4232.5 4286.9 4372.9 6348.0 6430.4 6515.7 6518.8 8465.0 8573.9 8737.5 8811.9 12697.8 12860.8 13116.3 13175.2 16930.4 17147.9 17344.5 22338.0 22490.0 22716.9
5RT	Toliara R, MDG	2579.0
5ST	ASECNA Antananarivo, MDG	16245.0
5ST ..	Antananarivo Meteo, MDG	41/**7552.5** 83/**17400.0**
5TA	Nouadhibou R, MTN	1881.0 2652.0 8572.0
5TX	ASECNA Nouadhibou, MTN	**6943.0**
5TY	ASECNA Nouakchott, MTN	**5783.0**
5UA	ASECNA Niamey, NGR	**5730.5 7596.0 7614.0 8050.5 9159.5 9187.5 11461.1**
5VA/8	Lome R, TGO	-/1650.0 + 2586.0 8/4363.6
5WA	Apia R, SMO	2206.0 4357.4 6512.6 8777.8 13138.0 17304.2
5XR 88	ICRC Kampala, UGA	**20754.4 27999.3**
5YD	Nairobi Air, KEN	**7423.0 8165.0 11546.0 13366.5 13737.0** 16245.0
5YE	Nairobi Meteo, KEN	**7460.5** *7464.5* **9041.0** *9045.0* **10384.2 11123.5 12313.0** *12317.0 15527.0 16317.0* **17363.0** *17367.0* **22865.0** *22869.0*
5ZF/.	Mombasa R, KEN	-/2595.0 + 4397.7 + 8784.0 2/8441.4 3/13065.0 4/17175.2

6MA	Mosulpo F R, KOR	1745.0 2032.0 2091.0 2438.0 2521.1 2583.0
6MB	Jumunjin F R, KOR	2530.0
6MC	Guryongpo F R, KOR	2405.0
6MD	Kunsan F R, KOR	2517.0
6MJ	Bangeojin F R, KOR	2517.0
6MK	Chungmu F R, KOR	2550.0
6MK ..	YONHAP Soul, KOR	50/7868.0 53/*6915.0* 58/*17373.0* 60/*6983.0* 64/***11602.5***
6MM	Masan F R, KOR	2449.0
6MN	Sokcho F R, KOR	2032.0 2521.1 2723.6
6OM	Muqdisho Air, SOM	**10509.5 12182.0**
6TR 88	ICRC Khartoum, SDN	20753.0
6VA/.	Dakar R, SEN	-/1813.0 + 2586.0 + 4366.7 + 8725.1 + 13134.9 + 17319.7 + 22654.9 3/4295.0 4/6383.0 5/8690.0 6/12655.0 7/16947.6
6VK ...	PANA Dakar, SEN	**221/20327.5 317/16117.0**
6VU	ASECNA Dakar, SEN	**6975.0 7483.0 9070.0**
6VU 7.	Dakar Meteo, SEN	73/**13665.0** + *13669.5* 79/**19747.5** + *19751.5*
6WI	ASECNA Dakar, SEN	17995.0
6WW	FN Dakar, SEN	8538.0 8992.5 12857.0 16951.5 **18365.0**
6YI	Kingston R, JMC	2587.0 2590.0 3535.0 4369.8 4403.9 6470.5 6518.8 8465.0 8753.0 13065.0 13172.1 16947.6
6YX	JCG Kingston, JMC	2738.0 4225.0 6350.0 8450.0 12750.0
7CB	IN Belawan, INS	9945.0 12236.0 16225.0 18982.0
7OA	Aden R, YEM	2595.0 3628.0 4391.5 8441.4 8774.7 13060.5 17175.2
7OB 45	ANA Aden, YEM	**9965.0**
7OC	Khormaksar Air, YEM	**5879.0 7340.0 11005.7 11541.0**
7OIR	Riyan Air, YEM	**8855.0**
7OW 93	Aden, YEM	10373.0
7RA 20	MOI El Djaza'ir, ALG	**14432.0**
7RQ 20	MFA El Djaza'ir, ALG	16339.0 18756.5 20145.0
7RQ 50	Algerian E Jakarta, INS	20145.0
7RQ 70	Algerian E Islamabad, PAK	20145.0
7TA/..	El Djaza'ir R, ALG	-/1792.0 + 2691.0 + 2775.0 2/4288.0 4/6415.0 6/8437.0 8/12662.0 10/16932.0 12/22543.0 13/4385.3 14/4394.6 15/4428.7 16/4434.9 17/6506.4 18/6512.6 19/6518.8 20/8722.0 21/8743.7 22/8756.1 23/8793.3 24/13119.4 25/13144.2 26/13150.4 27/13196.9 28/17319.7 29/17325.9 30/17341.4 31/17356.9 32/22608.4 33/22670.4 34/22676.6 35/22710.7
7TB	Annaba R, ALG	1911.0 2394.0
7TF	Skikda R, ALG	6415.0 8437.0 8722.0 8743.7 12662.0 13119.4 13144.2 16932.0 17325.9 22543.0
7TO	Oran R, ALG	1735.0 2586.0 2719.0
7U. ..	PTT El Djaza'ir, ALG	G44/**9443.0** P5/16050.0
7XA 9.	El Djaza'ir Meteo, ALG	**97/6981.8 98/11601.0**
7XR 27	Adrar Meteo, ALG	6945.0
7XR 31	Bechar Meteo, ALG	6945.0
7XR 92	Tindouf Meteo, ALG	6945.0
7ZA 222	SAUDIA Jeddah, ARS	17983.0
8BB 35	Jakarta Meteo, INS	**11500.0**
8BO 4	Bengkulu Air, INS	6921.0
8IS 370	PERTAMINA Cinta Oilfield, INS	11530.0
8PO	Bridgetown R, BRB	2582.0 2723.0 4376.0 6379.5 8449.3 8765.4 8793.3 12709.0 13138.0 16947.6 17353.8
8Q2	Male R, MLD	4379.1 4434.9 6506.4 8737.5 8805.7 13184.5 13193.8 17273.2 17350.7

8Q9	Male Air, MLD	**6989.0**
8RB	Demerara R, GUY	2555.0 2558.0 8449.0 12709.0 16947.6
8WB 4	Indian E Tehran, IRN	**16375.0**
8WD 2	MFA Delhi, IND	**16414.5**
9BC ..	IRNA Tehran, IRN	**21/7401.0 22/7801.0 23/7959.0 25/8049.0 31/18561.0 32/19200.0 33/19980.0**
9GA	Takoradi R, GHA	1835.0 3150.0 4262.0 4360.5 6424.0 6506.4 8542.0 8787.1 12669.0 13103.9 17175.2 17279.4 22633.2
9GC	Accra Air, GHA	**4510.0 5738.0 5803.5**
9GX	Tema R, GHA	1940.0 2820.0 3150.0 4340.0 4382.2 6480.0 6509.5 8696.0 8793.3 12765.0 13172.1 16920.0 17298.0 22639.4
9HA	Luqa Air, MLT	**2683.0 3595.0 5818.5 9228.0**
9HD	Valetta R, MLT	2625.0 4223.5 4385.3 6506.4 8441.4 8737.5 12709.2 13147.3
9HY 9	DW Cyclops, MLT	**9196.0**
9JP 2	Lusaka Police, ZMB	5200.0
9JZ	Lusaka Air, ZMB	**7913.0 8118.0 11443.0**
9KK/..	Safat R, KWT	-/2200.0 + 2750.0 + 2765.0 2/4299.0 3/4413.2 4/6381.0 5/6509.5 6/8525.0 7/8737.5 8/12895.0 9/13172.1 20/12925.0 21/17288.7 22/16995.0 + 17298.0 23/22504.0 24/22605.3 25/22642.5 32/4431.8 52/6518.8 72/8743.7 92/13181.4
9LL	Freetown R, SRL	2710.0 2755.0 6411.0 8710.0 8728.2 13042.5 17175.2
9MB/.	MN Georgetown, Pinang Island, MLA	-/5064.0 2/4239.0 3/6481.0 5/12781.5 6/16950.0
9MG ..	Georgetown R, Pinang Island, MLA	2/8492.0 + 8595.5 + 8698.0 3/12678.0 + 12831.0 + 12943.5 4/2680.0 6/4228.0 + 4337.0 8/4400.8 + 4407.0 9/8718.9 + 8771.6 10/6470.5 11/17045.6 + 17172.4 12/22465.0 15/**8705.0** 17/**17206.0** 20/2191.0 21/4416.3 + 4431.8 22/13131.8 + 13178.3 24/2790.0 30/6506.4 33/8811.9 38/17263.9 42/22689.0
9MK .	Kuantan R, MLA	5/2191.0 7/2620.0 8/2830.0
9MP .	Kelang R, MLA	5/2191.0 6/1980.0 7/2694.0
9MY ..	Kuala Lumpur Meteo, MLA	58/**9143.0** 63/**18354.0**
9NK	Kathmandu Air, NPL	**7320.5**
9PA	Banana R, ZAI	2192.0 4357.4 4382.2 8445.0 8546.0 8753.0 8762.3 8777.8 12660.0 13181.4 17184.8 17350.7 22431.0
9PL	Kinshasa Air, ZAI	**9058.0 9092.5 11027.5 14786.5 18363.5**
9RE 203	PTT Lubumbashi, ZAI	**20351.5**
9RL 3..	PTT Kinshasa, ZAI	388/**19481.2** 394/**19495.5** + **19497.3**
9UA	Usumbura Air, BDI	**13870.0 14633.0**
9VC 91	PIAB Singapore, SNG	**19535.0**
9VF 44	JIJI Singapore, SNG	*8140.0*
9VF 59	PIAB Singapore, SNG	**10217.5**
9VF 63	ANSA Singapore, SNG	**10408.0**
9VF 67	PIAB Singapore, SNG	**11007.0**
9VF 69	TAS Singapore, SNG	**11065.0**
9VF 205	JIJI Singapore, SNG	**16150.0**
9VF 206	ANSA Singapore, SNG	**16265.0**
9VF 207	KYODO Singapore, SNG	*16270.0*
9VF 209	JIJI Singapore, SNG	**17430.0**
9VF 232	ANSA Singapore, SNG	**20910.0**
9VF 233	KYODO Singapore, SNG	**20960.0**
9VF 235	KYODO Singapore, SNG	*23865.0*

9VF 236	PIAB Singapore, SNG	22913.0
9VF 255	PIAB Singapore, SNG	18050.0
9VG ..	Singapore R, SNG	5/2760.0 9/6340.5 20/12733.5 23/4280.0 24/6358.5 25/8530.0 26/12817.5 27/22479.0 28/17031.0 33/4313.0 34/12707.0 36/8688.0 37/12659.5 40/8706.5 52/2780.0 53/16868.5 54/4322.0 55/6412.0 56/8476.0 57/12724.0 58/16966.5 59/22428.0 60/4369.8 61/4376.0 62/6509.5 63/8728.2 64/8762.3 65/8790.2 66/13147.3 67/13156.6 68/17270.1 69/17356.9 70/22630.1 73/8609.5 74/4350.0 77/6504.0 78/8709.0 79/8715.0 80/13071.5 82/17197.5 83/17205.5 84/22566.0 94/13082.0 95/13089.0 96/17209.5 98/22574.0 99/22578.0
9WH	Kota Kinabalu R, Sabah, MLA	8438.0
9WW 20	Kuching R, Sarawak, MLA	2130.0 8522.0
9XK	Kigali Air, RRW	9164.0
9XK 79	DW Kigali, RRW	18212.0 21815.5
9YL	North Post R, TRD	2735.0 3165.0 6470.5 8441.0 12885.0 17184.8

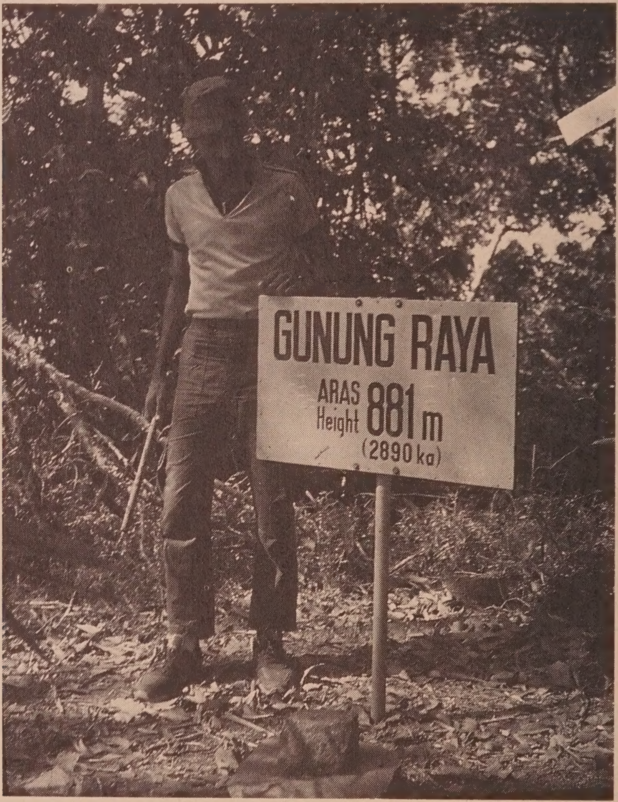

Figure 4 - The summit of Gunung Raya (see page 261). The steep jungle climb through the interesting tropical rainforest starts at the Lubuk Semilang recreation park and takes 2 hours. Potential followers should beware of snakes and take enough drinking water as there is no snack bar on the top of the mountain. The diesel, water and food supply of the police station is by porter, and that of the STM station (on the other side of the summit, see page 267) by helicopter. However, a supply road is under construction and planned to be completed during 1991.

7 Frequencies and stations without complete official call sign, and co-channel stations

7.1 Introduction

Many stations do not use their official call sign according to the ITU identification regulations specified in chapter 4. Notorious exceptions are

- air stations using ICAO location indicators, e.g. 'LGAT' instead of SWA;
- diplomatic and military stations using fictive call signs, e.g. 'DOR' = MFA Sofia; '91 HGN' = SN Cadiz;
- military stations using tactical call signs which change regularly (daily), e.g. 'AU26', 'ZH8R', etc.;
- military stations using NATO routing indicators, e.g. 'RPFN', 'UBDAD', etc.

7.2 NATO routing indicators

NATO routing indicators are used in military telecommunications throughout the former Western World. They are applied in the standard teletype message format as well as in operational traffic or test tapes.

A routing indicator consists of four to seven letters. The first four or five letters indicate the location, while the rest indicates the addressed military unit or sub-unit. The first four letters are decoded according to the following table:

First letter **Type of use**	Second letter **Country**	Third letter **Operation area**	Fourth letter **Force service**
A	Australia	East Asia	Army
B	Commonwealth		Army
C	Canada	Central North America	Army
D	Denmark	United Kingdom, Iceland	Army
E	Spain	Eastern North America	Army
F	France	Continental Europe	Army
G	Germany		Army
H	United States of America	Central South Pacific	Army
I	Italy		Navy
J	Argentina		Navy
K	Greece	Alaska, Aleutian Islands	Navy
L	Luxembourg	Caribbean, South America	Navy
M	SEATO	South East Asia	Navy
N	Netherlands		Navy
O			Navy
P	Portugal		Air Force
Q Reserve strategic	Belgium	Middle East	Air Force
R Strategic			Air Force
S	South Africa (Rep. of)	Western Asia	Air Force
T	Turkey	Iberia, Northwest Africa	Air Force
U Tactical	United States of America		Air Force
V		South Africa	Air Force
W		Western North America	Joint
X	CENTO, NATO		Joint
Y	Norway	Australia	Joint
Z	New Zealand		Joint

Examples:

- RFFLBCF: Strategic French Army in Continental Europe (sub-unit BCF of FF Toulon, F)
- RPTI: Strategic Portuguese Navy in Iberia (PN Ponta Delgada, AZR)
- UBDA: Tactical British Army in the Commonwealth (UNID major switching centre during annual British military exercises)

For examples of NATO routing indicators used in standard military teletype messages see chapter 22.

7.3 List of stations

Listed are

- ITU country/geographical symbol;
- call sign (apostrophe indicates routing indicator, or call sign not in compliance with official ITU allocations);
- name of the station;
- frequency (-ies) in kHz.

RTTY frequencies are emphasized by **bold type.** *FAX frequencies* are accentuated by *italic type*. Frequencies carrying ***both FAX and RTTY*** emissions are, consequently, printed in ***bold italic type***.

AAB		Region 1 additional ship-to-shore working frequency	2051.0 2054.0 2057.0
		Region 1 coast stations calling frequency	2170.5
		Region 1 intership working frequency	2048.0
		Region 1 ship stations calling frequency	2191.0
		Region 1 ship-to-shore working frequency	2045.0
AFS	ZS. ..	many R stations	1700.0 1765.0 2607.0 2716.0 2761.0
AGL		Egyptian E Luanda	**18021.7**
ALB	ZA.	many R stations	2282.0 2400.0 4302.0
ALG		APS El Djaza'ir	**14932.0**
		Cuban E El Djaza'ir	**18656.0**
		Egyptian E El Djaza'ir	**16136.7**
		El Oued Prefecture	**6800.0**
	'H6L'	French E El Djaza'ir	**13543.0**
		Italian E El Djaza'ir	**7446.5 11461.5**
		SAPB Oran R	1650.0
		SAPB Skikda R	1650.0
ARG		DyN Buenos Aires	**11013.0**
	L..	many R stations	2065.0 3860.6 4239.5
		NA Buenos Aires	**10805.0**
		Neuquen	6947.0
		TELAM Buenos Aires	**7428.5**
ARS		Indonesian E Jeddah	**20406.5**
		Malayan E Jeddah	**16286.0**
		MFA Riyadh	**9114.0 16329.0 17464.0 18552.0 19550.0**
		SABS Riyadh feeder	5068.0 10990.0 18757.0
ASC		RAF Wideawake	4742.0 9032.0 11234.0
ATG		English Harbour R	2582.0
AUS	VI.	many R stations	2056.0 2201.0 4366.7 4428.7 6512.6 8749.9
	VI./.	many R stations	6407.5 6463.5
AUT		Czech E Vienna	**6797.0**
AZR	'RPFR'	PAF Lajes AFB	**9224.5**
	'RPTIH'	PN Horta	**3696.0 14410.0 16042.0**
	'RPTI'	PN Ponta Delgada	**7839.8 9323.5 10722.0 10980.0 17525.0**
		Ponta Delgada Pilot R	2132.0
B		FF Brasilia	**22763.0**

B	PW.	many BN stations	4260.0 4307.0 6375.0 6453.0 8480.0 8670.0 12750.0 12804.0 16902.5 17060.0 22329.5 22461.0
	PY. 2.	many late Clube R st.	4137.4 4431.8
	PP.	many R stations	2086.0 2089.5 2096.5 4366.7 4369.8 4382.2 4403.9 4413.2 8774.7 8790.2 8802.6 8808.8
	P.. ...	many R stations	4379.1 4410.1 8740.6 8771.6 13122.5 13153.5
	Z.. .	many R stations	4410.1 8771.6 13153.5
BEL		Oostende Pilot R	1708.0
	OST ..	Oostende R	16167.7
		Vlissingen Pilot R	1708.0
		Zeebrugge Pilot R	1708.0
BEN		Cotonou Port R	2321.0
BGD		MFA Dhaka	**20777.0**
BRU		Egyptian E Bandar Seri Begawan	**22882.7**
BUL		Czech E Sofia	**13398.0 14480.0**
	'DOR'	MFA Sofia	**8175.0 13932.0 14397.0 14741.0 16015.0 19115.0 20325.0 20352.0**
		Polish E Sofia	**10136.0**
CAF	'RFFXI'	FF Bangui	**10680.5 14750.0 15860.0 16226.5 20267.6 20822.0**
CAN	V..	many CCG stations	2514.0 2538.0 2582.0 2598.0 4376.0
	VA.	many CCG stations	2054.0
(CAN)		many CFARS stations	14384.5 14445.0 14461.5 20962.0 20970.0
		many RCAF stations	11233.0
CAR	KUP 6.	many R stations	2616.0 2724.0
CBG	'SPK ..'	SPK Phnom Penh	**10/9829.0 11/8863.5 72/9255.5**
CHL	CB./..	many DGTMM R stations	2738.0 4357.4 4366.7 4369.8 4413.2 4431.8 6506.4 6515.7 8718.9 8737.5 8743.7 8756.1 8762.3 8768.5
CHN		XINHUA Beijing	*7656.0 12362.0*
CLM		CN Barranquilla	7800.0
		CN Cali	7800.0
CME	'RFTLD'	FF Douala	**9125.0 10169.0 13542.0 16323.0 20715.0 20812.0**
COM		Galawa Sun Hotel	16105.0
CPV	'RFTJFA'	FF Praia, Santiago	**12090.2 24711.7**
CTI		Abidjan F R	2416.0 2650.0 4366.7 6509.5 8734.4 13134.9
	'RFTJF'	FF Port Bouet	**10492.0 17550.9**
CUB	CL./.	many R stations	2760.0
CYP	'CJL'	MFA Nicosia	**16339.5**
D		Czech E Bonn	**7623.0**
		Düsseldorf	**2385.7**
	'RFGX'	FF Baden-Baden	**5404.0 5439.0**
	'AU26'	GA Oggelshausen	4648.0
		Giessen	**2768.5**
		Göttingen	**4619.0**
		INTERFLUG Berlin	6753.0 8984.0 11237.5 15046.0 17975.0
		Kiel	**7548.0**
		München	**2293.9 4916.0 4919.9**
		Potsdam Meteo	**2695.0 2770.0 4015.0 4045.0**
		Regensburg	**4916.0**
		RFE Holzkirchen feeder	4465.0 4565.0 5125.0 5295.0 6995.0 10420.0 10860.0 14712.5 15775.0 16065.0
		Saarbrücken	**2865.5**
		Tübingen	**3597.5**
(D)	AEM 1...	many USA MARS stations	3917.5
DJI	'RFQP'	FF Jibuti	**10638.7 10814.2 13444.2 13655.2 13830.2 13901.2 16125.2 16193.2 19387.7 20805.2 20856.7 23305.2**
	'DJR'	Jibuti Air	**5932.0** 16245.0
DMA		Roseau Port R	2216.5 2284.5 3690.1 4136.3 8281.2 8740.6 12421.0 16565.0 22094.5
DOM	HI./..	many Pilot R stations	2738.0
E		Aguino R	1866.0
		Arrecife R	1730.0 2586.0
		Barcelona R	1730.0 2707.0
		Burela R	1810.0
	'RETENX'	Burgos	**24922.3**
		Burgos	**14506.7**
		Cabo de Gata R	1866.0 2679.0
		Cedeira R	1800.0

E		Chipiona R	1700.0 2842.0
		Cillero R	1691.5
		COPE Ayamonte R	1800.0
		COPE Bermeo R	1754.0
		Egyptian E Madrid	17961.7
		ENPA Valencia R	3306.0 3325.0 4868.0
	'RETWL'	Guardia Civil Logron	5380.0 5381.5
	'RETZS'	Guardia Civil Sevilla	6936.5
	HGX ..	Hungarian E Madrid	15676.2
		Isla Cristina R	1904.0
		La Coruna R	1748.0 2596.0
		Lequeitio R	2580.0
		Machichaco R	1704.0 2586.0
		Madrid Meteo	*3650.0 10250.0*
	'RETXX'	MOI Madrid	6991.5
		Palma de Mallorca R	2792.0
		Sada R	1707.0
		San Fernando R	2632.0
	'RETENP'	San Sebastian	5238.1
		Santona R	1840.0
	'91 HGN'	SN Cadiz	2197.5
	'99 GDH'	SN Cartagena	8391.0
	'98 DDX'	SN Madrid	3629.0 4279.0 6771.0 8474.0 9042.0 13052.4
		Turkish E Madrid	17979.0
		Vitoria	26303.5
		Zaragoza	6991.5
EGY		MFA Cairo	4486.7 6626.7 6731.7 7746.7 7811.7 7838.7 11211.7 11236.7 11271.7 11311.7 12469.7 13347.7 13929.7 14320.7 14966.7 15016.7 15641.7 15916.7 15938.7 16071.7 16151.7 16203.7 16211.7 16318.7 16346.7 16626.7 17114.7 17171.7 18021.7 18136.7 18166.7 18723.7 19006.7 19051.7 19421.7 19541.7 23116.7
		Polish E Cairo	18481.2
		Ras Shukheir Oilwell	5343.5
		RGB Cairo	6208.5
F	OEC ..	Austrian E Paris	14520.0
	'RFFVA'	FAF Paris	8094.7
	'RFFE'	FF Bordeaux	5254.0 6948.0 7475.0
	'RFFC'	FF Lille	5740.0 7982.5
	'RFFF'	FF Lyon	5192.5 5357.0 5458.0
	'RFFH'	FF Marseille	4498.5 5224.0 5316.0 5807.0 6939.4 7840.0 8128.0
	'RFFS'	FF Metz	3803.0
	'RFFQ'	FF Nice	6815.0
	'RFFDC'	FF Rennes	6925.0
	'RFFG'	FF Strasbourg	3388.0 5818.0 5847.5 7425.5
	'RFFX'	FF Versailles	8105.0 9337.0 10120.0 10858.0 13572.5 16291.0 20385.0
	'RFFUAJ'	FF Villacoublay	13977.7 17462.7
		many Cross R stations	2677.0
	'P6Z'	MFA Paris	10726.0 11572.0 14486.0 14975.0 15873.0 18760.0 19635.0 20556.0
	'RFGW'	MFA Paris	5153.0 24310.0
	'RFFA'	MOD Paris	5396.6 6942.5 6945.0 7605.0 7830.0 7937.5 7957.5 9075.0 9980.5 10176.0 10950.2 13310.0 16076.0 16165.2 18502.0 19048.7 19417.0 20179.7 22915.0 23234.2
		Pakistan E Paris	21853.0
FLK		RAF Stanley	11234.0
FNL		many Pilot R stations	2418.0 2747.0
G		Czech E London	14478.0
		Nigerian E London	18677.0
		Pakistan E London	23020.0 23021.7
	GKX ..	Portishead Air	8185.0 8960.0 10291.0 19510.0 20065.0
		Saint Helier R, Jersey	1726.0
		Saint Peter Port R, Guernsey	1662.5 1792.0 1810.0
		RAF Buchan	6741.5
		RAF Portland	8993.0

GAB	'RFTJDA'	FF Libreville	**10665.0 14420.0 14669.0**
		Libreville Port R	2306.0 2654.0 3197.0 3237.0 6204.0 8268.4
		Port Gentil Port R	2153.0 2321.0 2652.0 2791.0
GHA	CLP ..	Cuban E Accra	20245.0
		German E Accra	**13928.6**
		MFA Accra	20954.7
GRC	'ATNS'	French E Athens	**16333.0**
		German E Athens	**11538.4 13928.6 14663.5 16016.3**
		Italian E Athens	**10209.5**
		MFA Athens	**23005.7 23023.7**
		Polish E Athens	**13877.0**
		VoA Kavalla	**14982.9 14984.3 18263.0 18264.4 25160.0**
GUF	'RFLIG'	FF Cayenne	**12063.0**
HKG		INTERPOL Victoria Island	14607.5
HNG	'D2Z'	French E Budapest	**15912.2**
HTI		Port-au-Prince R	2738.0
HWA	'PHWR'	USAF Hickam AFB, Honolulu	**7873.0 9042.5 16178.0** *16182.0* **17432.0 17513.0** *17517.0* **23113.0** *23117.0*
I		Egyptian E Rome	**14867.7 16131.7 16171.7**
		IA Tirano	4852.2
		IA Treviso	5086.8 5089.0
	'RIFAGD'	IA Vallelunga Pratameno	**5082.8**
		MFA Rome	**7449.5 7910.5 7998.3 10156.5 10547.5 11098.5 11141.5 12126.5 12128.0 14537.5 15643.0 15683.5 15936.5 16156.5 16233.5 17440.5 17452.5 17492.0 17498.5 20167.5 20836.5**
		Pakistan E Rome	**18091.7**
IND	'VECC'	Calcutta Air	**10122.5**
		Egyptian E Delhi	**16351.7**
		German E Delhi	**13928.6 20066.8**
	'RBSL'	IN Bombay	**8500.0 12903.0 16922.0**
		Indonesian E Delhi	**18491.5 19101.5 19500.0**
		Jogindernagar	6952.5
INS		Ambon	7341.5
		Banda Aceh	10842.0 11185.0
		Batam Island	10478.5
		Belawan	6753.0
		BP Jakarta	14789.0
		BP Palembang	14789.0
		Cirebon	18824.5
		Denpasar	14765.0
		Egyptian E Jakarta	**18251.7**
		Jakarta	9075.0 13396.0 13540.0 14633.0 18824.5
		Jambi	14647.5
	P..	many R stations	12682.5
	P.. ..	many R stations	8802.6
	PK.	many R stations	4238.0 4295.0
	PK. .	many R stations	4410.1 6337.0 6355.0 6491.5 6506.4 8445.0 8686.0 8808.0
	PK. ..	many R stations	2690.0 3180.0 4425.6 6456.5 6512.6 6515.7 6518.8 8626.0 8759.2 8796.4 12980.0
		Mataram	10912.0
		Medan	6995.2
		MFA Jakarta	**10899.5 14512.5 18056.7 18401.5 18416.7 19111.5 19117.5 19755.0 19756.5**
		Nigerian E Jakarta	**23355.0**
		Padang	7341.5 11500.0
		PERTAMINA Jakarta	**13814.0**
		PERTAMINA Lhokseumawe	**13814.0**
		Pontianak	7120.0
		Prapat	9499.5
		Tanjung Pinang	10271.0
IRN	'BUNI'	Indonesian E Tehran	**18316.4**
	EQ.	many R stations	4292.0 6362.0 6515.7 8469.0 8790.2 13069.5
IRQ	'7A1'	Czech E Baghdad	**18418.0**
		ICRC Baghdad	**13966.5**
		Polish E Baghdad	**18574.0**

ISL		PTT Gufunes feeder	13855.0
ISR		El Al Tel Aviv	21880.0
		German E Tel Aviv	**20421.5**
J		German E Tokyo	**22904.5**
		Indonesian E Tokyo	**18398.5**
		Kushiro Harbour R	2785.9
	J..	many R stations	4244.0 6386.5 6512.6 8534.0 8698.0 8811.9 12660.0 13015.5 13196.9
	J.../5	many R stations	2091.0 2150.0
		Osaka Harbour R	2019.0
		Turkish E Tokyo	**19962.0**
JOR		Egyptian E Amman	**8916.7**
KEN		Egyptian E Nairobi	**18001.7**
		Italian E Nairobi	**20053.5**
		Nairobi	12140.0
KOR		Anhung F R	2027.0
		Cheju F R	2032.0
		Donghae F R	2521.1 2600.0
	DS.	many F R stations	2091.0 2115.0 2583.0
	6M.	many F R stations	2115.0
		many F R stations	2115.0
	6M./.	many Port R stations	1880.0
	HL.	many R stations	2091.0 2583.0
		Samch'onp F R	2268.0 2521.1
	HBD ..	Swiss E Soul	**20603.2**
		Taeha-dong F R, Ullung do Island	2449.0
KRE		KCNA Pyongyang	*9439.7 12169.7 18879.4*
		MFA Pyongyang	**6574.3 19150.0 21326.0**
		PTT Pyongyang	18174.0
KWT		German E Safat	**16016.3**
LAO		KPL Vientiane	**10114.0 14640.0**
LBN	'RFFXL'	FF Beirut	**10415.0 14578.0 14964.0**
	'BRTH'	French E Beirut	**16305.0 23417.0**
LBY		Italian E Tripoli	**8134.5**
		JANA Tripoli	**10518.0 12186.0 14573.0 15462.0 20560.0**
		Pakistan E Tripoli	**19021.7**
LCA		Castries Lighthouse R	2146.0 2327.0 2381.0 2527.0 2582.0 2638.0
		Vieux Fort Lighthouse R	2146.0 2381.0 2527.0 2582.0 2638.0
MDG		Antalaha R	2663.0 4360.5
		Maintirano R	2712.0 4400.8
		Manakara Sud R	2579.0 4360.5
		Mananjary R	2652.0 4400.8
		Morondava R	2652.0 4372.9
MDR	'RPTMB'	PN Porto Santo	**11145.0 12057.0**
		PN Porto Santo	**2699.4**
MEX	XF. .	many PEMEX R stations	2660.0 4346.0 4363.6 4379.1 6442.5 8690.0 8743.7 8796.4 8805.7 12790.0 13165.9 17069.6
	XF./.	many PEMEX/R stations	4366.7 8768.5 13125.6 13175.2
	XF.	many R stations	2270.0 2320.0 2431.0 2470.0 2542.0 2560.0 6506.4 17242.2
		Merida	**7888.0**
MLA		Bintulu, Sarawak	23720.0
		German E Kuala Lumpur	**20062.5**
		Kota Baharu	9052.0
		Kuala Lumpur	13970.0
		MFA Kuala Lumpur	**16286.0**
MLI		Egyptian E Bamako	**18341.7**
	'BKO'	French E Bamako	**14690.0**
MLT		Italian E Valetta	**9087.5**
MMM	Region 1 intership working frequency		2053.0 2056.0
	Regions 2 and 3 intership working frequency		2635.0 2638.0
MOZ		Egyptian E Maputo	**11245.7**
		Italian E Maputo	**28271.4**
	C8R ..	many R stations	2094.0 2601.0
	C8E 32.	Nacala	12162.7

MRC		Egyptian E Rabat	18121.7
	'J5W'	French E Rabat	19655.0
		MFA Rabat	18896.0
		VoA Tanger	5460.0 10886.0 10972.0 11058.0 12223.5 13770.0 16246.8 16248.1 19814.8 19914.8 20014.8
MRT	'RFLI'	FF Fort de France	10800.0 11108.8 13732.0 14626.7 14875.0 17502.0 19100.0 19204.8 19216.7 24850.0
MTN		German E Nouakchott	20421.5
MWI	7QH ..	many RAILMA R stns.	3563.6
MWM	supplementary worldwide distress and calling frequency		4125.0 6215.0
	worldwide calling/distress/safety frequency		3023.0 5680.0
	worldwide coast and ship stations simplex frequency		4143.6 6218.6 6221.6 8291.1 8294.2 12429.2 12432.3 12435.4 16587.1 16590.2 16593.3 22124.0 22127.1 22130.2 22133.3 22136.4
	worldwide coast stations and intership DSC calling frequency		2177.0
	worldwide coast stations DSC frequency		4357.0 6506.0 8718.5 13100.0 13100.5 17232.0 17232.5 22595.0 22595.5
	worldwide distress and calling frequency		2182.0
	worldwide distress and safety frequency		8291.0 12290.0 16420.0
	worldwide DSC distress and safety frequency		2187.5 4207.5 6312.0 8414.5 12577.0 16804.5
	worldwide MSV SAR operations frequency		10003.0 14993.0 19993.0
	worldwide NBDPT distress and safety frequency		2174.5 4177.5 6268.0 8376.5 12520.0 16695.0
	worldwide NBDPT MSI frequency		4210.0 6314.0 8416.5 12579.0 16806.5 19680.5 22376.0 26100.5
	worldwide NBDPT NAVTEX freq.		4209.5
	worldwide ship stations DSC calling frequency		2189.5
	worldwide ship stations DSC frequency		4187.5 6281.5 8375.5 12562.0 12562.5 16750.5 16751.0 22248.0 22248.5
	worldwide survival craft stations frequency		8364.0
MYA		Indian E Yangon	18725.0
NCL	'RFHI'	FF Noumea	18040.0
NIG		German E Lagos	16333.0 22904.5
		ICRC Lagos	20754.4
		MFA Lagos	19357.0 19644.0 19836.5 20037.0 20735.0 23355.0 24060.0
		NAN Lagos	10602.5
		Sapele Port R	8799.5
		SHELL Lagos	6837.0 7617.0
NOR		MFA Oslo	21858.0
NZL	ZMH ..	many Harbour R stns.	2012.0 2162.0 4422.5
		Taharoa Harbour R	2480.0
OCE	'RFHJ'	FF Papeete, Tahiti	18965.0 24870.0
OMA		Salalah Port R	2635.0
PAK		Italian E Islamabad	18765.5
		MFA Islamabad	14407.0 14478.0 16385.0 16386.7 16390.0 18031.7 18091.7 18287.5 20011.7 21060.0 21853.0 24006.7
	'RBSM'	PN Karachi	20490.0
PHL		French E Manila	10764.0
		Manila	12085.0
	D.. .	many R stations	4136.3 4230.0 6515.7 8451.0 8777.8 8784.0 8802.6 8808.8 12661.5
	DZ.	many R stations	17245.3
	DV. 7	Navotas R	8728.2
		VoA La Union, Poro I.	11477.0 14526.5 19792.5 19892.5 20482.5
PNR		Armuelles Port R	4139.5
		La Palma Port R	4139.5
		Vacamonte Port R	4139.5
POL		Czech E Warsaw	5746.0

POR	'RXFIAF'	NATO Lisbon	7577.0
	'RPFN'	PN Lisbon	3259.0 6860.0 7397.0 9098.0 9225.0 11140.0 13437.0 13465.0 17472.0 25315.0
	'RPFNG'	PN Lisbon	3296.5 5336.5
	'RPFNN'	PN Lisbon	3696.0 16347.0
	'RPFNS'	PN Sagres	3694.0
		Viseu	5049.3
(POR)	CT.	many PN stations	2657.0
PRU	O.. .	many PELPER R stations	4475.0
	OB. .	many R stations	4376.0 4397.7 6474.0 8546.0 8749.9 13015.5
REU	'RFVI'	FF Le Port	7895.0 10867.5 10873.7 12188.6 13846.7 16012.6 18730.0 20633.7 22911.0 26241.7
S	SAB 8..	Goeteborg R	17225.5
		Polish E Stockholm	10177.0
		Stockholm Air	8972.0 11222.0
SDN		Egyptian E Khartoum	14645.7 19821.7
		SUNA Khartoum	15731.0 18788.0 19463.0
SEN	'RFTJ'	FF Dakar	10916.0 14925.0 14958.1 15635.0 19145.7 19645.0 26440.0
	'DKR'	French E Dakar	14689.8
		German E Dakar	22904.5
		Kaolack R	2586.0
		MFA Dakar	13295.0 18119.0
		PANA Dakar	19383.0
		Ziguinchor Port R	3168.0
		Ziguinchor R	1630.0
SLK	'VCCC'	Colombo Air	5115.0 6529.5
		Italian E Colombo	12202.0
SOM		Baraawe	6790.0
		Berbera	5310.0
		Garoowe	7756.8
		Marka	9355.0 11105.0
		Muqdisho	5175.0 6790.0 6949.0 7756.8 9355.0
SYR	'7T1'	Czech E Damascus	18280.5
		Indonesian E Damascus	18216.5
		SANA Damascus	11080.0 15020.0
TCD	'RFPTC'	FF N'djamena	10467.7 14585.7 16147.7 18447.7 20995.7 21857.7
TCH	'X'	Beacon Prague	3171.9 3180.0 5922.0 6735.0 9322.0 18313.0
		Italian E Prague	9333.5
	OM.	many R stations	6506.4
		Prague Meteo	3196.0 4336.0 6392.0 8672.0
THA		Phuket	6970.0
		Satun	16065.0
TRD		AMOCO Galeota R	2292.0 2398.0 2735.0 2738.0
		Port of Spain R	6210.4 8281.2 12421.0
		TOC Pointe-a-Pierre R	2166.0 2406.0 2506.0 2558.0 2638.0
TUN		Egyptian E Tunis	14909.7 16008.7
		Italian E Tunis	8180.5
	3VW/.	many Port R stations	1743.0
		MFA Tunis	5260.0 5621.0 6770.0 7711.0 8105.0 13941.5 13951.5
		PLO Tunis	14390.0
TUR		Egyptian E Ankara	11236.7 13226.7 19266.7
		Italian E Ankara	15795.5
	'GC'	USAF Adana	15485.0
TUV		Funafuti Island R	4388.4
TZA		Indonesian E Dar es Salaam	20401.5
		Zanzibar R	2049.0 2638.0
UAE		Egyptian E Abu Dhabi	18211.7
UGA		Egyptian E Kampala	23006.7
URG	CW. ..	many UN stations	2040.5 2638.0 2721.5
	CW./..	many UN stations	2226.5 4280.0 4369.8 6376.0 8578.0 12655.5 16904.9
URS		AEROFLOT Moscow, RU	11193.0 13220.0
		Aktyubinsk Air, KA	6730.0
		Alma Ata Air, KA	6730.0
		APN Moscow, RU	15640.0 15693.0 16155.0 17550.0 18200.0 19725.0 20710.0
	OEC ..	Austrian E Moscow, RU	11076.5

URS		Baku Air, AZ	6730.0
		Baku Meteo, AZ	**3795.0**
	'S'	Beacon Arkhangelsk, RU	5305.0 6801.5 8645.5 10643.5 13635.5 17015.7 20991.7
	'P'	Beacon Kaliningrad, RU	3167.0 3206.0 3291.0 3564.2 3592.0 3649.0 3754.0 3772.0 3807.0 4031.0 4099.0 4202.2 4476.0 4605.0 4618.0 4767.0 4809.0 4842.0 4899.0 5182.0 5306.2 5862.0 6263.0 6336.0 6802.2 6986.0 7356.0 8646.2 10644.2 13636.2 17016.2 20992.2
	'K'	Beacon Khabarovsk, SE	4054.5 5920.0 7904.5 8143.5 8157.5 9042.5 11155.0 12149.5 14476.5 15809.0 18347.5 23713.5
	'Ü'	Beacon Kholmsk, FE	13639.0
	'L'	Beacon Leningrad, RU	3097.3 3565.8 4132.6 4304.8 5308.8 6804.8 10646.8 13638.8
	'M'	Beacon Magadan, FE	12828.0 13636.5 17016.5 20992.5
	'C'	Beacon Moscow, RU	3564.0 4302.0 5306.0 6802.0 8646.0 10644.0 13636.0 17016.0 20992.0
	'O'	Beacon Moscow, RU	3566.0 4304.0 5308.0 6804.0 8648.0 10646.0 13638.0 17018.0 20994.0
	'Z'	Beacon Mukachevo, UK	5308.5 10646.7 11200.0 13638.7
	'U'	Beacon Murmansk, RU	3563.0 3635.5 4447.5 4774.5 5374.5 5784.5 5867.5 5916.5 6244.5 6862.5 6984.5 7000.0 7422.5 7676.5 8077.5 8135.5 8641.5 8669.5 9056.5 9313.5 10214.5 12184.5 12327.5 14325.0 14966.5 15654.5 15704.5 16155.0 16271.0 18113.0 20429.0
	'D'	Beacon Odessa, UK	3563.5 6801.5 8647.0 10643.5 13637.0 17015.5 20993.0
	'F'	Beacon Vladivostok, SE	2481.0 5667.0 8646.5 10645.0 13637.0 17017.0 20993.0
	'5W3'	Czech E Moscow, RU	**14364.0**
		Irkutsk Air, SE	**3895.0**
		Kiyev Air, UK	6617.0
	RGC 7.	Kiyev Meteo, UK	**3290.0**
		Krasnodar Air, RU	6730.0
		Krasnoyarsk Air, SW	**4135.0**
		Kuybishev Air, RU	6693.0
		Kuybishev Meteo, RU	*4575.0 5420.0*
		Leningrad Air, RU	6617.0
		Moscow Air, RU	6617.0
		Murmansk, RU	**8150.0**
		Murmansk Meteo, RU	*6446.0 10520.0*
		Novosibirsk Air, SW	6693.0
		Novosibirsk Meteo, SW	*4475.0 8950.0*
		PTT Moscow, RU	13977.5 14639.5 20992.0
		Riga Air, LA	6617.0
		R Moscow feeder, RU	3508.0 6978.5 8081.0 10344.0 10855.0 12141.0 13735.0 15650.0 18945.0 19273.1 19725.0
		Rostov-na-Donu Air, RU	6617.0
		Rostov-na-Donu M., RU	*9100.0*
		SAF Moscow, RU	20698.0 23710.0
		Spanish E Moscow, RU	**9050.0**
		Sverdlovsk Air, SW	6693.0
		Syktyvkar Air, RU	6693.0
		Tashkent Air, UZ	6730.0
		Tbilisi Air, GE	6730.0
		Turkish E Moscow, RU	**18184.0**
		Tyumen' Air, SW	6693.0
		Vietnamese E Mosc., RU	**18610.0**
	'UNII'	Yeniseysk Air, SW	**6744.3**
		Yeniseysk Air, SW	6693.0
USA	common coast and ship stations simplex frequency		4125.0
		Eg. E Washington, DC	**19951.7**
		USIA Washington, DC	**18179.0**
		VoA Bethany feeder, OH	10869.0
		VoA Delano feeder, CA	18525.0 19912.5
		VoA Greenville, NC	**10233.0 10234.3 10235.8 10237.2 10380.8 10382.2 18215.0 18602.9 18604.4**

USA		VoA Greenville feeder, NC	5745.0 6873.0 7480.5 7651.0 7768.5 10235.0 10454.0 11150.0 14526.0 16244.5 18275.0 18782.5 19261.5 19480.0 20125.0 25950.0
(USA)		many NORAD stations	9023.0
	AFA 6..	many USAF MARS stations	6775.0
	AFA 7..	many USAF MARS stations	3917.5
		many USAF MARS stations	13985.0 14606.0 20188.5
		many USAF stations	3060.0 6761.0 8989.0 8993.0 11176.0 11243.0 11267.0 13241.0
		many USA MARS stations	4025.0 20994.0
	N..	many USCG stations	4428.7 5696.0 6506.4 8765.4 13113.2
	NM./..	many USCG stations	2670.0
		many USCG stations	8984.0
		many USN MARS stations	13974.0 14383.3 14467.0 14470.0 14477.0 20936.0 20997.0
VTN		MFA Hanoi	18240.0
	'HVQ ..'	VNA Hanoi	8/9124.0 20/8135.7
	'VNA ..'	VNA Hanoi	30/16383.0 86/11420.0
YEM		French E San'a	13460.0
YUG		Egyptian E Belgrade	11528.7
	'G8T'	French E Belgrade	13556.0 14442.0
	'OPBE'	JAT Belgrade	13248.0 17975.0
	YU.	many R stations	2191.0 2615.0 2670.0 2685.0 2771.0
	'DFZG'	MFA Belgrade	5312.0 9046.0 9388.0 10802.0 11149.0 11625.0 12297.0 13399.0 14677.0 14912.0 16295.0 16299.0 16302.0 18045.0 18055.0 19222.0 20132.0 21862.0 22888.0 23097.0 24102.0
		Split Meteo	2959.0
		Turkish E Belgrade	13953.0
ZAI	CLP ..	Cuban E Kinshasa	20834.4
		Greek E Kinshasa	23023.7
		Lubumbashi	14429.0
		MFA Kinshasa	14432.0
		Nigerian E Kinshasa	23355.0
ZWE	CLP ..	Cuban E Harare	24795.5 ☺

8 RTTY press services in alphabetical order

Alphanumerical index of news agencies and other stations transmitting regular press bulletins.

Listed are
- country;
- name of the station;
- frequency;
- call sign;
- time (-s) and language (-s).

Not listed are
- irregular news broadcasts by diplomatic or military stations;
- harmonic or spurious emissions.

ALBANIA

ATA Tirana

7850.0	ZAA	1100-1245 + 1700-1845 + 1900 + 2100 F
9133.0	ZAA 6	0700 + 0900-1045 E
9430.0	ZAT	0800-1045 F, 1100 + 1500 + 1700-1845 E
10435.0	ZAY	1400 + 1500 F

ALGERIA

APS El Djaza'ir

14932.0		0700-1000 A, 1000-1200 E, 1200-1400 F, 1400-1500 A, 1500-1600 S

ARGENTINA

DyN Buenos Aires

2279.0	LRN 62	0000 + 0100 S
4549.5	LRO 9	2200-0400 S
7954.5	LRN 85	1100 + 1900-0400 S
11013.0		1500 + 2000-0400 S

NA Buenos Aires

3840.0	LRO 23	2200-0200 S
10805.0		0900 + 1000 + 1200 + 2000-0300 S

TELAM Buenos Aires

3266.7	LRB 83	2100-0500 S
4004.5	LRO 2	0900 + 2200-0500 S
7428.5		0500 + 0800 + 1000 + 2000-0300 S
10893.5	LRB 39	0900 + 1900-0100 S
13540.0	LRO 81	1500-0400 S
18421.0	LQB 54	1800 + 1900 S

BAHRAIN

GNA Manama

4042.5	A9M 9	1500-1700 E, 1700-2100 A
9197.5	A9M 41	0500-1500 A
14764.0	A9M 70	0500-1500 A, 1500-1700 E, 1700-2100 A

BELGIUM

Oostende R

5376.5	OST 28	0400 + 0900 + 1400 Dutch
7776.5	OST 38	0300 Dutch

BULGARIA

BTA Sofia

6960.0	LZN 3	1730 + 1900 E
7460.0	LZB	1730 E
11110.0	LZG 2	1200 + 1300 E
11502.0	LZH 4	0800 + 1330 + 1830 E
13400.0	LZG 3	1200 + 1300 E
15555.0	LZP 2	1200 + 1300 E

CAMBODIA

SPK Phnom Penh

8863.5	'SPK 11'	0400 E
9255.5	'SPK 72'	1000 + 1100 E, 1200 + 1400 + 1900 F
9829.0	'SPK 10'	0700 E, 0800 F, 0900 E, 1000 F

CHINA

XINHUA Beijing

6915.0	BAP 46	0900 + 1100 + 1400 + 1500 + 1630 + 1830 E
7520.0	BZP 57	1400 + 1700-0300 E
7650.0	BZR 67	1400 + 1700-0300 E
10982.0	BAP 40	0600 + 0700 + 0800 E
11133.0	BZG 41	1400-1900 F
11680.0	BZP 51	0100 + 1400-1800 E
12265.0	BZR 62	0200 + 1400-1800 E
14367.0	BZP 54	0600-2000 E
14376.0	BZT 34	0830-0945 + 1100 R
14760.0	BAT 93	0200 + 0300 + 0700-1600 E, 1600 F, 1700-2100 E
14795.5	BZM 45	1200 + 1300 E
14923.0	BAP 44	0000-0300 E
16136.0	BZR 66	0600-1500 E
17214.0	BZP 58	0600 + 1100 + 1200 E
17443.0	BZG 48	0700-1300 F
17470.0	BZS 28	0700-1400 E
18872.0	BZR 68	0600-1500 E
19384.0	BZG 49	0600 + 0700 F

CUBA

PL Habana

8140.0	CLN 219	0800 + 0900 E
13826.5	CLN 411	0800 + 0900 E
14901.0	CLN 451	0600 E, 0700 S, 1200-2200 E
16348.0	CLN 530	1200-2300 E
18193.5	CLN 603	2200 E

DENMARK

Lyngby R

4355.5	OXZ	0030 + 0830 + 1630 Danish
6498.5	OXZ	0030 Danish
13084.0	OXZ	1530 Danish
13093.5	OXZ	0030 + 0830 + 1530 + 1630 Danish
17212.5	OXZ	0830 + 1630 Danish
22570.0	OXZ	1630 Danish
25437.0	OXZ	1630 Danish

EGYPT

MENA Cairo

5220.0	SUA 94	0600 + 1400-2300 A
5275.0	SUA 211	1700 E/F, 1800 + 1900 E, 2000 F, 2100 + 2200 E
7610.0	SUA 231	0200 + 0500 + 0600 + 1600 + 1700 E, 1800 F, 1900 E, 2000 F, 2200 + 2300 E
7756.0	SUA 34	1500-2400 A
10150.0	SUA 246	0200 + 0600-2400 A
10610.0	SUA 251	1700 E, 2100 F, 2200 + 2300 E
13653.0	SUA 50	0600 + 0800 F, 0900 E, 1200 + 1500 + 1700 F, 1800 + 2000 + 2100 E
15845.0	SUA 289	0200 + 0600-2200 A
15935.0	SUA 291	0600 E, 0900 F, 1000 E, 1100 F, 1200 E, 1300 F, 1400 E, 1500 F, 1600 + 1700 + 1900 + 2000 E, 2100 + 2200 F

FINLAND

Helsinki R

6497.0	OFA	0100 Finnish
13087.5	OFA	1715 Finnish
17427.5	OFA	1100 + 1700 Finnish

GERMANY

DPA Hamburg

110.6	DCF 30	0200 + 0500-2200 G

EPD/SID Frankfurt

140.3	DCF 60	0800-2200 G

HAB Hamburg

22361.0	DFW 36	0900 G

PIAB Bonn

123.7	DCF 42	0545-0745 + 1345-1445 G
8132.0	DFH 23	0545-0745 + 1345-1445 G
11123.6	DFL 26	1300 G
13927.7	DFN 92	1345 + 1400 + 1500 + 1600 G
16017.4	DFQ 21L1	0900 + 1430 + 1500 + 1600 + 2200 G
18704.3	DFS 70	0730-1030 G
20022.4	DFU 20H3	1500 + 1600 + 1700 G
23545.0	DFX 54	0700 + 0800 + 0900 + 1000 G
23692.6	DFX 69	1200 + 1300 G
23697.6	DFX 69H6	1400-1800 G
25320.6	DFZ 32	1100 + 1200 + 1300 + 1400 G
26441.5	DFZ 64	1100 + 1200 + 1300 G

Rügen R

4242.5	Y5M	0130 + 1000 + 2100 G
8608.5	Y5M	0130 + 0200 + 1030 + 1330 + 1600 + 2100 G
12909.0	Y5M	1000 G
17183.0	Y5M	1000 + 1330 + 1600 G
22401.0	Y5M	1600 G
22581.0	Y5M	1500 G

VWD Frankfurt

129.1	DCF 45	0400-1800 G

GREECE

Athens R

8462.0	SVU 4	0300 Greek
13095.5	SVU 5	1300 + 2100 Greek
17208.5	SVT 6	1300 + 2100 Greek
22585.5	SVU 7	1300 Greek

HONG KONG

AFP Victoria Island

7542.5	ZEN 33	0100 E, 1400 F, 1500-2200 E
13866.0	ZEN 64	0700 + 0800 E

HUNGARY

MTI Budapest

9114.0	HGG 31	1000 + 1100 + 1700 E
10911.0	HGH 29	1615 F
15670.0	HGM 36	1615 E
17468.0	HGO 24	0600 E

INDIA

MEA Delhi

14785.0	ATP 65	0830-1700 E
18255.0	ATB 68	0830-1500 E

IRAN

IRNA Tehran

7401.0	9BC 21	1800+1900 A
7801.0	9BC 22	1500-1730 E
7959.0	9BC 23	1500-1730+1900-2030 E, 2030-2200 A
8049.0	9BC 25	1730-1900 A, 1900-2030 E, 2030-2200 A
18561.0	9BC 31	1000-1100 E, 1100-1230 A
19200.0	9BC 32	1000-1300 E
19980.0	9BC 33	1000-1100 E, 1100-1400 A, 1500+1600+1700 E

IRAQ

INA Baghdad

5867.0	YIL 68	1300-2200 A
7565.0	YIX 75	1300-2000 A
10162.5	YIL 71	1300-2000 A
13524.0	YIO 72	0900+1100 E, 1200 F, 1300-2300 E
14373.0	YIL 73	0900+1000 E, 1100 A, 1200 F, 1300-2300 E
14699.0	YIX 70	0900 A

ITALY

ANSA Rome

8030.0	IRF 50	0800 E, 0900 F, 1000 E, 1100 F, 1200+1300 E, 1400 F, 1500 E, 1600 F, 1800 E
8047.5	IRF 20	1700+1800 E
8062.0	IRF 80	0800 E, 0900 F, 1000 E, 1100 F, 1200 E, 1400 F, 1500 E, 1600 F, 1800+1900 E, 2000 F
12083.0	IRJ 50	1800 E
12108.0	IRJ 21	0800 E, 0900 F, 1000 E, 1100 F, 1200 E, 1400 F, 1500+1800 E
13487.5	ISX 35	0900 F
15693.5	ISX 56	0800 E, 0900+1100 F, 1200 E, 1400 F, 1500 E, 1600 F
16066.8	IRO 30	1700+1800 E
20085.0	ISX 20	0800 E, 0900 F, 1000 E, 1100 F, 1200 E, 1400 F, 1500 E, 1600 F
20372.0	IRS 23	1400 F, 1500 E, 1600 F
22892.5	IAR 76	0700 E
22955.0	ISX 22	0900+1100 F, 1200+1500 E, 1600 F
24790.0	ISX 24	0800 E, 0900 F, 1000 E, 1100 F, 1200+1500 E, 1600 F
25271.5	ISX 25	0900 F, 1000 E, 1100 F

JAPAN

DIS Tokyo

13765.0	JAM 33	0900 E
18988.0	JAX 78	0200+0600+0700 E

JIJI Tokyo

10200.0	JAE 50	1000+1100+1200 S

KYODO Tokyo

5097.5	JAB 35	0720-0820+0830-0950+1000-1100+1400 E
8175.0	JAE 58	0000-0100+0240-0410+1220-1250 E
10795.0	JAG 50	0250-0320+0440-0600+0610-0630 E
12070.0	JAL 32	0430-0600+0610-0640 E
12275.0	JAL 82	0430-0600+0610-0640+0720-0820+1000-1100 E
14547.5	JAL 44	0720-0820+1000-1100 E
14595.0	JAL 54	0720-0820+1400 E
15945.0	JAM 55	0900 E
17597.5	JAQ 57	0240-0410+0430-0600 E

PL Tokyo

10710.0	JAG 30	1100+1200+1730 S

JORDAN

PETRA Amman

5055.0	JYF	1400+1500 A, 1700-1900 E

9463.0	JYF 4	0400 A, 0800-0900 E, 0900 + 1000 + 1400 + 1500 A, 1700 E
14560.0	JYF 2	0800 E, 0900 + 1000 + 1100 A

KOREA (DEMOCRATIC PEOPLE'S REPUBLIC OF)

KCNA Pyongyang

7364.0	HMF 88	1800 E
8020.0	HMF 85	1800-2100 E
8152.0	HMF 86	1000 E, 1145 + 1200 F, 1800 E
9395.0	HMF 84	1230 R, 1500 + 1600 E, 1800-2100 + 2130-2400 F
10524.0	HMF 45	1145-1445 F
10580.0	HMF 46	1000-1100 + 1500-1700 E
11430.0	HMF 55	1230-1430 R, 2100 + 2300 F
11432.0	HMF 21	1000-1100 E
11475.0	HMF 52	0030-0100 F, 0400 + 1800 + 1900 + 2100 E, 2330-2400 F
11536.0	HMF 49	0800-1030 E, 1145-1430 + 1800-2100 F
12175.0	HMF 42	0400-0730 + 1830-2100 + 2130-2300 E
13580.0	HMF 36	0030-0100 F, 0400-0730 E, 1200 + 2330-2400 F
13780.0	HMF 35	0400-0530 E, 0600-0830 R, 1000-1100 E, 1230-1430 R, 1500 E
14452.0	HMF 57	0800-1030 E, 1215 + 1300 F
14568.0	HMF 32	0400-0600 + 1000-1100 E
15633.0	HMF 26	0400-0530 E, 0600-0830 R, 1000-1200 E, 1230-1430 R

KOREA (REPUBLIC OF)

YONHAP Soul

7868.0	6MK 50	0030 + 0700 E
11602.5	6MK 64	0030 + 0700 + 1200 E

LAOS

KPL Vientiane

10114.0	0800 + 0900 E
14640.0	0900 E

LIBYA

JANA Tripoli

10518.0	1400 + 1500 + 1700 + 1800 A
12186.0	1400 + 1500 + 1600 F, 1700 + 1800 + 1900 E
14573.0	0700-1300 + 1600 + 1700 A
15462.0	0800 E, 1100 + 1700 F, 1800 E, 1900 F
20560.0	1600 + 1700 E

MONGOLIA

MONTSAME Ulan Bator

10337.0	JTD 29	1600 + 1700 E

MOROCCO

MAP Rabat

7842.4	CNM 20.1X11	1000-1130 F, 1200-1400 E, 1530-1700 F
10213.0	CNM 29	1000-1130 F, 1200-1400 E, 1530-1700 F
10634.1	CNM 37.9X	1000-1130 + 1530-1700 F
14574.4	CNM 59X9	0900-1030 A, 1200-1400 E, 1530-1700 A
14760.0	CNM 61	1000-1130 F, 1200-1400 E, 1530-1700 F
15752.7	CNM 66X2	1000-1130 F, 1200-1400 E, 1530-1700 F

16000.0	CNM 69.1X	1000-1130 F, 1200-1400 E, 1530-1700 F
18220.9	CNM 76X9	1000-1130 F, 1200-1400 E, 1530-1700 F
18496.1	CNM 80X11	0900-1030 A, 1200-1400 E, 1530-1700 A
19171.1	CNM 85X11	0900-1030 A, 1200-1400 E, 1530-1700 A

VoA Tanger

5460.0	0300 A, 2100-0300 E
10972.0	2200-0600 E
12223.5	0100 + 0200 A, 2200-0100 E
13770.0	0800 + 0900 + 1000 E, 1100 F, 1200 + 2200 + 2300 E
19914.8	0800-1000 E, 1000-1200 F, 1200 + 1300 E

NEW CALEDONIA AND DEPENDENCIES

DIPLO Noumea

16106.0	FZM 62	0100-1300 F

NIGERIA

NAN Lagos

10602.5	1500-1900 E

NORWAY

Rogaland R

4351.0	LGW 2	1900 N
4352.5	LGW 3	1800 + 1900 N
6498.0	LGU 2	0700 N
8707.0	LGB 2	0700 + 1700 + 1900 N
12682.5	LFC	0700 + 1500 + 1900 N
13081.0	LGJ 3	0700 + 1700 + 1900 N
13097.0	LGJ 4	0700 + 1700 + 1900 N
17199.5	LGX 2	0700 + 1700 + 1900 N
17223.0	LGX 3	0700 + 1700 + 1900 N

PHILIPPINES

VoA La Union, Poro Island

11477.0	2200 + 2300 E
14526.5	0000 + 0100 + 0300 + 0600 E
19792.5	0000-1000 E, 1000 + 1100 F
20482.5	0000-0700 E

POLAND

PAP Warsaw

5903.0	SOF 290	1600 E
6805.0	SOG 280	0030 + 1700 + 2100 E
6848.0	SOG 284	0000 E, 1900 F
7845.0	SOH 284	0030 + 1700 + 2100 E
7892.5	SOH 289B	1200 + 1400 + 1800 Polish
8192.5	SOI 219	1600 E
9298.0	SOJ 229	0600 E
9391.0	SOJ 239	0700 F, 1800 + 2000 E
10245.0	SOK 244	1700 E
11423.5	SOL 242B	1200 + 1400 + 1800 Polish
11494.0	SOL 249	1100 E, 1200 Polish, 1500 R
11497.0	SOL 349	0000 + 1400 E
13541.5	SON 254	1200 + 1400 + 1800 Polish
13563.6	SON 263	0600 E
13602.4	SON 260B	1200 + 1400 + 1800 Polish
14362.0	SOO 236	1200 Polish, 1700 E
14597.0	SOO 259	1300 + 1400 + 1800 Polish
15508.5	SOP 250	1700 F
17492.0	SOR 249	0845 R, 1700 E
18648.5	SOT 265B	1200 + 1800 Polish
18650.0	SOT 265	1700 F
18651.5	SOT 265A	1800 Polish
18993.5	SOT 299B	1200 + 1400 Polish
20286.5	SOV 228	1200 + 1400 + 1800 Polish
20933.5	SOV 293B	1200 Polish
20936.5	SOV 293A	1200 Polish
23405.0	SOY 240B	1400 Polish

ROMANIA

ROMPRES Bucharest

6972.0	YOG 59	1600 F, 1700 + 1800 + 1900 E
9797.0	YOJ 27	0900 E, 1000 F
12110.0	YOM 21	1100 + 1200 E
21807.5	YOV 28	0700 + 0800 E

SENEGAL

PANA Dakar

16117.0	6VK 317	0800-1900 E/F
19383.0		0900 + 1000 + 1100 E, 1500-1900 E/F
20327.5	6VK 221	1500 E/F

SINGAPORE

ANSA Singapore

10408.0	9VF 63	1700 E
16265.0	9VF 206	1700 E
20910.0	9VF 232	0645 E

JIJI Singapore

16150.0	9VF 205	1330 E
17430.0	9VF 209	1330 E

KYODO Singapore

20960.0		0430-0600 + 0610-0640 + 1000-1100 E

PIAB Singapore

10217.5	9VF 59	1400-1800 G
11007.0	9VF 67	1400-1800 G
18050.0	9VF 255	1430 G
19535.0	9VC 91	1400-1800 G
22913.0	9VF 236	0900 + 1000 + 1100 G

SUDAN

SUNA Khartoum

15731.0		1000 + 1415 A, 1600 E, 1700 A
18788.0		1000 + 1700 E
19463.0		0900 + 1600 F

SWEDEN

Goeteborg R

2423.5	SAB	1700 Swedish
4268.6	SAB 23	0500 + 1700 Swedish
8556.0	SAB 44	0500 + 1700 Swedish
12818.0	SAB 63	0500 + 1700 Swedish
17024.0	SAB 83	0500 + 1700 Swedish
22356.8	SAB 93	1700 Swedish

SYRIA

SANA Damascus

11080.0		0700-1600 A, 1700 E, 1800 A
15020.0		1600 E, 1630 F

TAIWAN

CNA Taipei

7695.0	3MA 26	0230-0330 + 0930-1030 + 1330-1500 E
10960.0	3MA 28	0230-0330 + 0930-1030 + 1330-1500 E
13563.0	3MA 22	0230-0330 + 0930-1030 + 1330-1500 E
16224.0	3MA 35	0230-0330 + 0930-1030 + 1330-1500 E

TUNISIA

TAP Tunis

13610.0	3VF 40	1100 A, 1300 F, 1400 A, 1500-1800 F

14800.0	3VA 71	1500-1800 F

TURKEY

AA Ankara

8137.5	TCY 1	1400+1630-1900 Turkish
18040.0	TCY 4	0700-1100 E, 1100-1300 Turkish, 1300-1330 E, 1330-1600 Turkish

UNION OF SOVIET SOCIALIST REPUBLICS

ANGOP Moscow, RU

7525.0	RBX 56	1900+2000 P
9140.0	RCV 26	1900 F, 2000 P

APN Moscow, RU

10465.0	RKA 74	0700+0800+1000 R
10865.0	RZA 24	0700-1200 R
11575.0	RVL 29	0700+0800 R
11615.0	RGD 27	0800-1200 R
12222.5	RUD 38	0700 A, 0800 F, 0900 A, 1000 F
12285.0	RKU 74	0700-1200 R
13430.0	RRC 61	0700+0800 G
13540.0	RRW 71	0400+0500+0600 A
14580.0	RCC 74	0900+1000 R
14950.0	RWM 79	0400 R, 0500+0600+0700 A, 0800 R
15630.0	RWM 72	0500-0900 R
15640.0		0500 E, 0600 A
15693.0		0700-1100 F
15720.0	RWM 74	0700 R, 0800 E, 0900 R
15910.0	RGG 43	0700-1200 E
16020.0	RHA 42	0600 A, 0700 F, 0800 A, 0900+1000 F, 1100 A
16040.0	RTT 40	0400-0900 A, 0900+1000 F
16060.0	RFM 27	0600+0700 A, 1000 P, 1300 A
16075.0		0700-1200 E
16085.0	RND 71	0500+0600 R, 0700+0800 E
16135.0	RBI 72	0400 A, 0600+0700 R, 0800 P, 0900+1000 R
16145.0	RWM 77	0400-1500 E
16155.0		0400+0500 A, 0600 F, 0700+0800+0900 A
16215.0	RCF 47	0600 A, 0800 R
16250.0	RME 22	0400-1000 E
16300.0	RMD 59	0600 A, 0900-1300 P
17520.0	REM 55	0600+0700+0800 E
17550.0		1100 A
18170.0	RIF 33	0500-0900 E, 0900 R
18200.0		0900+1000 F
18440.0	RIF 32	0600 F, 0700 R, 0800 F
18455.0	RWN 71	0500+0700 F, 1000+1100+1300+1400 P
18520.0	RRG 28	0700 F, 0800 A, 0900-1200 F
18635.0	RWN 70	0900+1000 R
18835.0	RWN 74	0400+0500 E, 0800 R
19035.0	RFD 50	0700 A, 0800+0900 F
19070.0	RRG 25	0500+0600+0700 E
19127.0	RMC 21	1200 P
19725.0		0700+0900 F, 1000 P
19830.0	RWW 76	0700+0800 E
20695.0	RMC 25	0700+0800 E
20710.0		0400 R
20925.0	RHA 46	0800 F, 0900 R/F
20965.0	RKB 70	1000 R
21793.0	RKE 29	0600 E
21805.0	RNE 34	0500+0700 E
22843.0	RHA 49	1000+1100+1200 P

Klaipeda R, LI

6475.0	UNM 2	1915 R, 2300 G
17138.0	URB 2	1000 R

Moscow R, RU

8645.0	UAT	2130 G
8707.5	UAT	1600 G
12739.0	UAT	1830 R
12930.0	UAT	0800+1000 R, 1500 F, 1900 R
12980.0	UAT	0630+2300 R
17228.0	UAT	1315 G

PL Moscow, RU

18600.0	RWN 72	0700 E, 0800 P, 0900+1000 F, 1100-1500 P
19505.0	RCD 36	0700 E, 0800+0900+1000 P, 1100 F, 1200+1300+1400 P

SA/AAMC Moscow, RU

12793.0	RNO	0730+0800 R
17163.0	RNO	0730+0800 R

Sevastopol' R, UK

17153.0	URL	0900 R

TASS Moscow, RU

5470.0	RKC 29	0415-0545 E
6870.0	RTV 55	0415-0545 E
8060.0	RAW 71	0415-0545 E
8140.0	RNN 51	0415-0545 + 1900 E
10105.0	RKA 79	0415-0545 E, 0700 F, 1100 + 1200 A
10120.0	RGI 24	0700-1645 F
10165.0	RPT 31	1700 + 1900 F
10258.0	RDZ 71	1700 + 1800 + 1900 A
10270.0	RKA 25	1300-2300 E
10790.0	RKA 71	1600 + 1700 + 2100 E
10865.0	RZA 24	1700 E
11470.0	RNK 33	1700 + 1800 + 2200 E
12085.0	RCB 55	0415-0545 + 0700 + 0900 + 1300 E, 1800 A
12285.0	RKU 74	0415-0545 E, 1700 P, 1800 + 1900 A
12315.0	RVW 57	0430-1800 E
12325.0	RDD 72	0415-0545 E, 0600 + 1600 F, 1700 E, 2100 A
13490.0	RCG 77	1600 F, 1700 + 1800 A, 1900 F, 2100 A
14490.0	RNK 36	0430-1700 + 2000 E
14510.0	RIC 75	0000 + 0500-1900 E
14700.0	REB 24	0500-2200 E
14720.0	RKB 58	0600 + 0700 + 0800 F, 0900 + 1100 + 1200 A, 1300 + 1400 F, 1500 + 1900 A
15575.0	REN 30	0500-1700 E
15710.0	RED 52	0600-1900 F
15930.0	RBI 78	0415-0545 E, 0600-2000 F
16050.0	RCE 54	0600-1800 E
16140.0	RGW 28	0600-1700 + 2100 E
16190.0	RGW 26	0600-1645 F, 1700 A
16260.0	REM 57	0600-1900 F
17360.0	RCF 41	0800-1800 A
17510.0	RFD 53	0600-1800 F
17600.0	RIJ 71	1000-1800 P
18050.0	RQV 70	0600 + 1300 + 1400 + 1600 + 1700 F
18125.0	RND 70	0600-2100 E
18160.0	RTB 25	0800-1900 F
18195.0	RCI 73	1000 + 1300 + 1700 F
18310.0	RDT 57	1000-1900 F
18340.0	RGB 34	1100 + 1300 + 1500 F
18385.0	RRQ 20	0500-1800 E
18405.0	RCT 57	0600-1800 E
18410.0	RAD 24	1300 F
18540.0	RTV 57	0800 + 0900 + 1700 P
19105.0	RPT 34	0400-1400 F
19127.0	RMC 21	0800 + 1200-1900 P
19210.0	RCC 79	0600 F, 0800 A, 0900 F, 1000-1400 A, 1400 A/F, 1500 F, 1600 + 1700 A/F, 1800 + 1900 F, 2000 A
19235.0	RWW 70	0800 + 0900 F, 1000 + 1200 A, 1400 A/F, 1500 F
19830.0	RWW 76	1200 + 1300 Armenian
19845.0	RWZ 74	0600 + 0700 + 0900 + 1300 + 1900 E
20615.0	RCC 75	1300 + 1700 E

UNITED STATES OF AMERICA

USIA New York, NY

14638.0	WFK 54	1500-2300 E
18542.5	WFK 48	1600-2000 E, 2100 S

VoA Greenville, NC

10233.0		2200-0300 E, 0300 + 0400 A
10234.3		2200-0300 E, 0300 + 0400 A
10235.8		2200-0300 E, 0300 + 0400 A
10237.2		2200-0300 E, 0300 + 0400 A
10380.8		0200 + 0800 + 1000 + 1100 E
10382.2		0200 + 0800 + 1000 + 1100 E
18215.0		1600-2300 E

VIET NAM

VNA Hanoi

8135.7	'HVQ 20'	0000 + 1000 V, 1100 F, 1130 V
9124.0	'HVQ 8'	0000 + 0100 + 0800-1300 V
9330.0	XVN 26	1400 + 1500 E, 1600 F
10600.0	XVN 37	1400-1800 E, 1800 F
11420.0	'VNA 86'	1100 + 1200 + 1300 F, 1330 V, 1500 + 1600 + 1700 + 1900 E
13656.0	XVN 8	0400 + 0530 + 1130 F, 1400 V, 1430 F
15744.0	XVN 36	0500 + 0700 + 0800 E
16383.0	'VNA 30'	1200 + 1300 F

18264.0	XVN 48	0500 + 0600 + 0700 F, 0800 E

YEMEN

ANA Aden

9965.0	7OB 45	1630-1730 A, 1800 E

YUGOSLAVIA

TANJUG Belgrade

5112.0	4OC 3	0200 + 0700-1900 SC
5240.0	4OC 2	1700-0400 E
7592.0	YZD 6	1900 F
7658.0	YZD	0700-1900 + 1915 + 2000-0600 E
7806.0	YZD 7	0000 + 1700 + 1800 + 1915 + 2200 E
7996.0	YZD 9	0300 + 1700 E
10278.8	YZA 9	1700 + 1800 F
11604.0	Y2J 3	0400-1700 E
12212.5	YZO 7	0000-0500 + 0700-1700 E
13440.0	YZJ 5	0000-0500 + 0900-1700 E
15705.0	YZJ 6	0900-1700 F
16343.0	YZI 4	0400 + 0700 + 0800 + 0900 + 1000 + 1300 E, 1400 + 1700 F
17610.0	YZJ 8	1800 S
18050.0	YZI	0400 + 0700 + 0900 + 1000 E, 1500-1800 F
19865.5	YZJ 4	1400 + 1500 + 1600 S
20204.0	YZJ	1200 F, 1300 + 1400 E ☺

9 RTTY press services in chronological order

Chronological index of news agencies and other stations transmitting regular press bulletins.

Listed are
- time;
- name of the station, and ITU country/geographical symbol;
- language (-s);
- frequency (-ies).

Not listed are
- irregular news broadcasts by diplomatic or military stations;
- harmonic or spurious emissions;
- frequencies which were monitored with "ry" transmissions only.

Schedules may vary with seasons, weekends - which are on Friday in Islamic countries -, propagation conditions, etc.

Press bulletins the exact schedules of which are known are listed under the time of the start of the bulletin and, if the bulletin takes more than one hour, under the full hour(s) following that time.

Other press bulletins are listed under the full hour preceding the monitored reception time and, if the bulletin takes more than one hour, under the full hour(s) following that time.

0000	DyN Buenos Aires, ARG	S	2279.0 4549.5 7954.5 11013.0
	KYODO Tokyo, J	E	8175.0
	NA Buenos Aires, ARG	S	3840.0 10805.0
	PAP Warsaw, POL	E	6848.0 11497.0
	TANJUG Belgrade, YUG	E	5240.0 7658.0 7806.0 12212.5 13440.0
	TASS Moscow, RU, URS	E	14510.0
	TELAM Buenos Aires, ARG	S	3266.7 4004.5 7428.5 10893.5 13540.0
	VNA Hanoi, VTN	V	8135.7 9124.0
	VoA Greenville, NC, USA	E	10233.0 10234.3 10235.8 10237.2
	VoA La Union, Poro I., PHL	E	14526.5 19792.5 20482.5
	VoA Tanger, MRC	E	5460.0 10972.0 12223.5
	XINHUA Beijing, CHN	E	7520.0 7650.0 14923.0
0030	KCNA Pyongyang, KRE	F	11475.0 13580.0
	Lyngby R, DNK	Danish	4355.5 6498.5 13093.5
	PAP Warsaw, POL	E	6805.0 7845.0
	YONHAP Soul, KOR	E	7868.0 11602.5
0100	AFP Victoria Island, HKG	E	7542.5
	DIPLO Noumea, NCL	F	16106.0
	DyN Buenos Aires, ARG	S	2279.0 4549.5 7954.5 11013.0
	Helsinki R, FNL	Finnish	6497.0
	NA Buenos Aires, ARG	S	3840.0 10805.0
	TANJUG Belgrade, YUG	E	5240.0 7658.0 12212.5 13440.0
	TELAM Buenos Aires, ARG	S	3266.7 4004.5 7428.5 10893.5 13540.0
	VNA Hanoi, VTN	V	9124.0
	VoA Greenville, NC, USA	E	10233.0 10234.3 10235.8 10237.2
	VoA La Union, Poro I., PHL	E	14526.5 20482.5 19792.5
	VoA Tanger, MRC	A	12223.5
		E	5460.0 10972.0 11680.0 14923.0
	XINHUA Beijing, CHN	E	7520.0 7650.0

0130	Rügen R, D	G	4242.5 8608.5
0200	DIPLO Noumea, NCL	F	16106.0
	DIS Tokyo, J	E	18988.0
	DPA Hamburg, D	G	110.6
	DyN Buenos Aires, ARG	S	4519.5 7954.5 11013.0
	MENA Cairo, EGY	A	10150.0 15845.0
		E	7610.0
	NA Buenos Aires, ARG	S	10805.0
	Rügen R, D	G	8608.5
	TANJUG Belgrade, YUG	E	5240.0 7658.0 12212.5 13440.0
		SC	5112.0
	TELAM Buenos Aires, ARG	S	3266.7 4004.5 7428.5 13540.0
	VoA Greenville, NC, USA	E	10233.0 10234.3 10235.8 10237.2 10380.0 10382.2
	VoA La Union, Poro I., PHL	E	20482.5 19792.5
	VoA Tanger, MRC	A	12223.5
		E	5460.0 10972.0
	XINHUA Beijing, CHN	E	7520.0 7650.0 12265.0 14760.0 14923.0
0230	CNA Taipei, TAI	E	7695.0 10960.0 13563.0 16224.0
0240	KYODO Tokyo, J	E	8175.0 17597.5
0250	KYODO Tokyo, J	E	10795.0
0300	Athens R, GRC	Greek	8462.0
	CNA Taipei, TAI	E	7695.0 10960.0 13563.0 16224.0
	DIPLO Noumea, NCL	F	16106.0
	DyN Buenos Aires, ARG	S	4549.5 7954.5 11013.0
	KYODO Tokyo, J	E	8175.0 10795.0 17597.5
	Oostende R, BEL	Dutch	7776.5
	TANJUG Belgrade, YUG	E	5240.0 7658.0 7996.0 12212.5 13440.0
	TELAM Buenos Aires, ARG	S	3266.7 4004.5 7428.5 13540.0
	VoA Greenville, NC, USA	A	10233.0 10234.3 10235.8 10237.2
	VoA La Union, Poro I., PHL	E	14526.5 20482.5 19792.5
	VoA Tanger, MRC	A	5460.0
		E	10972.0
	XINHUA Beijing, CHN	E	14760.0
0400	APN Moscow, RU, URS	A	13540.0 16040.0 16135.0 16155.0
		E	16145.0 16250.0 18835.0
		R	14950.0 20710.0
	DIPLO Noumea, NCL	F	16106.0
	KCNA Pyongyang, KRE	E	11475.0 12175.0 13580.0 13780.0 14568.0 15633.0
	KYODO Tokyo, J	E	8175.0 17597.5
	Oostende R, BEL	Dutch	5376.5
	PETRA Amman, JOR	A	9463.0
	SPK Phnom Penh, CBG	E	8863.5
	TANJUG Belgrade, YUG	E	7658.0 11604.0 12212.5 13440.0 16343.0 18050.0
	TASS Moscow, RU, URS	F	19105.0
	TELAM Buenos Aires, ARG	S	3266.7 4004.5
	VNA Hanoi, VTN	F	13656.0
	VoA Greenville, NC, USA	A	10233.0 10234.3 10235.8 10237.2
	VoA La Union, Poro I., PHL	E	20482.5 19792.5
	VoA Tanger, MRC	E	10972.0
	VWD Frankfurt, D	G	129.1
0415	TASS Moscow, RU, URS	E	5470.0 6870.0 8060.0 8140.0 10105.0 12085.0 12285.0 12325.0 15930.0
0430	KYODO Singapore, SNG	E	20960.0
	KYODO Tokyo, J	E	12070.0 12275.0 17597.5

0430	TASS Moscow, RU, URS	E	12315.0 14490.0
0440	KYODO Tokyo, J	E	10795.0
0500	APN Moscow, RU, URS	A	13540.0 14950.0 16040.0 16155.0
		E	15640.0 16145.0 16250.0 18170.0 18835.0 19070.0 21805.0
		F	18455.0
		R	15630.0 16085.0
	DIPLO Noumea, NCL	F	16106.0
	DPA Hamburg, D	G	110.6
	GNA Manama, BHR	A	9197.5 14764.0
	Goeteborg R, S	Swed.	4268.6 8556.0 12818.0 17024.0
	KCNA Pyongyang, KRE	E	12175.0 13580.0 13780.0 14568.0 15633.0
	KYODO Singapore, SNG	E	20960.0
	KYODO Tokyo, J	E	10795.0 12070.0 12275.0 17597.5
	MENA Cairo, EGY	E	7610.0
	TANJUG Belgrade, YUG	E	7658.0 11604.0
	TASS Moscow, RU, URS	E	5470.0 6870.0 8060.0 8140.0 10105.0 12085.0 12285.0 12315.0 12325.0 14490.0 14510.0 14700.0 15575.0 15930.0 18385.0
		F	19105.0
	TELAM Buenos Aires, ARG	S	7428.5
	VNA Hanoi, VTN	E	15744.0
		F	18264.0
	VoA La Union, Poro I., PHL	E	20482.5 19792.5
	VoA Tanger, MRC	E	10972.0
	VWD Frankfurt, D	G	129.1
0530	VNA Hanoi, VTN	F	13656.0
0545	PIAB Bonn, D	G	123.7 8132.0
0600	APN Moscow, RU, URS	A	13540.0 14950.0 15640.0 16020.0 16040.0 16060.0 16215.0 16300.0
		E	17520.0 18170.0 19070.0 21793.0
		F	16155.0 18440.0
		R	15630.0 16085.0 16135.0
	DIPLO Noumea, NCL	F	16106.0
	DIS Tokyo, J	E	18988.0
	DPA Hamburg, D	G	110.6
	GNA Manama, BHR	A	9197.5 14764.0
	KCNA Pyongyang, KRE	E	12175.0 13580.0
		R	13780.0 15633.0
	MENA Cairo, EGY	A	5220.0 10150.0 15845.0
		E	7610.0 15935.0
		F	13653.0
	MTI Budapest, HNG	E	17468.0
	PAP Warsaw, POL	E	9298.0 13563.6
	PIAB Bonn, D	G	123.7 8132.0
	PL Habana, CUB	E	14901.0
	TASS Moscow, RU, URS	E	12315.0 14490.0 14510.0 14700.0 15575.0 16050.0 16140.0 18125.0 18385.0 18405.0 19845.0
		F	12325.0 14720.0 15710.0 15930.0 16190.0 16260.0 17510.0 18050.0 19105.0 19210.0
	VNA Hanoi, VTN	F	18264.0
	VoA La Union, Poro I., PHL	E	14526.5 20482.5 19792.5
	VWD Frankfurt, D	G	129.1
	XINHUA Beijing, CHN	E	10982.0 14367.0 16136.0 17214.0 18872.0
		F	19384.0

0610	KYODO Singapore, SNG	E	20960.0
	KYODO Tokyo, J	E	10795.0 12070.0 12275.0
0630	Moscow R, RU, URS	R	12980.0
0645	ANSA Singapore, SNG	E	20910.0
0700	AA Ankara, TUR	E	18040.0
	AFP Victoria Island, HKG	E	13866.0
	ANSA Rome, I	E	22892.5
	APN Moscow, RU, URS	A	12222.5 14950.0 16040.0 16060.0 16155.0 19035.0
		E	15910.0 16075.0 16085.0 16145.0 16250.0 17520.0 18170.0 19070.0 19830.0 20695.0 21805.0
		F	15693.0 16020.0 18455.0 18520.0 19725.0
		G	13430.0
		R	10465.0 10865.0 11575.0 12285.0 15630.0 15720.0 16135.0 18440.0
	APS El Djaza'ir, ALG	A	14932.0
	ATA Tirana, ALB	E	9133.0
	DIPLO Noumea, NCL	F	16106.0
	DIS Tokyo, J	E	18988.0
	DPA Hamburg, D	G	110.6
	GNA Manama, BHR	A	9197.5 14764.0
	JANA Tripoli, LBY	A	14573.0
	KCNA Pyongyang, KRE	E	12175.0 13580.0
		R	13780.0 15633.0
	MENA Cairo, EGY	A	10150.0 15845.0
	PAP Warsaw, POL	F	9391.0
	PIAB Bonn, D	G	123.7 8132.0 23545.0
	PL Habana, CUB	S	14901.0
	PL Moscow, RU, URS	E	18600.0 19505.0
	Rogaland R, NOR	N	6498.0 8707.0 12682.5 13081.0 13097.0 17199.5 17223.0
	ROMPRES Bucharest, ROU	E	21807.5
	SANA Damascus, SYR	A	11080.0
	SPK Phnom Penh, CBG	E	9829.0
	TANJUG Belgrade, YUG	E	7658.0 11604.0 12212.5 16343.0 18050.0
		SC	5112.0
	TASS Moscow, RU, URS	E	12085.0 12315.0 14490.0 14510.0 14700.0 15575.0 16050.0 16140.0 18125.0 18385.0 18405.0 19845.0
		F	10105.0 10120.0 14720.0 15710.0 15930.0 16190.0 16260.0 17510.0 19105.0
	VNA Hanoi, VTN	E	15744.0
		F	18264.0
	VoA La Union, Poro I., PHL	E	19792.5
	VWD Frankfurt, D	G	129.1
	XINHUA Beijing, CHN	E	10982.0 14367.0 14760.0 16136.0 17470.0 18872.0
		F	17443.0 19384.0
0720	KYODO Tokyo, J	E	5097.5 12275.0 14547.5 14595.0
0730	PIAB Bonn, D	G	18704.3
	SA/AAMC Moscow, RU, URS	R	12793.0 17163.0
0800	AA Ankara, TUR	E	18040.0
	AFP Victoria Island, HKG	E	13866.0
	ANSA Rome, I	E	8030.0 8062.0 12108.0 15693.5 20085.0 24790.0

0800	APN Moscow, RU, URS	A	16020.0	16040.0	16155.0	18520.0
		E	15720.0	15910.0	16075.0	16085.0
			16145.0	16250.0	17520.0	18170.0
			19830.0	20695.0		
		F	12222.5	15693.0	18440.0	19035.0
			20925.0			
		G	13430.0			
		P	16135.0			
		R	10465.0	10865.0	11575.0	11615.0
			12285.0	14950.0	15630.0	16215.0
			18835.0			
	APS El Djaza'ir, ALG	A	14932.0			
	ATA Tirana, ALB	F	9430.0			
	BTA Sofia, BUL	E	11502.0			
	DIPLO Noumea, NCL	F	16106.0			
	DPA Hamburg, D	G	110.6			
	EPD/SID Frankfurt, D	G	140.3			
	GNA Manama, BHR	A	9197.5	14764.0		
	JANA Tripoli, LBY	A	14573.0			
		E	15462.0			
	KCNA Pyongyang, KRE	E	11536.0	14452.0		
		R	13780.0	15633.0		
	KPL Vientiane, LAO	E	10114.0			
	KYODO Tokyo, J	E	5097.5	12275.0	14547.5	14595.0
	MENA Cairo, EGY	A	10150.0	15845.0		
		F	13653.0			
	Moscow R, RU, URS	R	12930.0			
	PANA Dakar, SEN	E/F	16117.0			
	PETRA Amman, JOR	E	9463.0	14560.0		
	PIAB Bonn, D	G	18704.3	23545.0		
	PL Habana, CUB	E	8140.0	13826.5		
	PL Moscow, RU, URS	P	18600.0	19505.0		
	ROMPRES Bucharest, ROU	E	21807.5			
	SA/AAMC Moscow, RU, URS	R	12793.0	17163.0		
	SANA Damascus, SYR	A	11080.0			
	SPK Phnom Penh, CBG	F	9829.0			
	TANJUG Belgrade, YUG	E	7658.0	11604.0	12212.5	16343.0
		SC	5112.0			
	TASS Moscow, RU, URS	A	17360.0	19210.0		
		E	12315.0	14490.0	14510.0	14700.0
			15575.0	16050.0	16140.0	18125.0
			18385.0	18405.0		
		F	10120.0	14720.0	15710.0	15930.0
			16190.0	16260.0	17510.0	18160.0
			19105.0	19235.0		
		P	18540.0	19127.0		
	TELAM Buenos Aires, ARG	S	7428.5			
	VNA Hanoi, VTN	E	15744.0	18264.0		
		V	9124.0			
	VoA Greenville, NC, USA	E	10380.8	10382.2		
	VoA La Union, Poro I., PHL	E	19792.5			
	VoA Tanger, MRC	E	13770.0	19914.8		
	VWD Frankfurt, D	G	129.1			
	XINHUA Beijing, CHN	E	10982.0	14367.0	14760.0	16136.0
			17470.0	18872.0		
		F	17443.0			
0830	KYODO Tokyo, J	E	5097.5			
	Lyngby R, DNK	Danish	4355.5	13093.5	17212.5	
	MEA Delhi, IND	E	14785.0	18255.0		
	XINHUA Beijing, CHN	R	14376.0			

0845	PAP Warsaw, POL	R	17492.0
0900	AA Ankara, TUR	E	18040.0
	ANSA Rome, I	F	8030.0 8062.0 12108.0 13487.5
			15693.5 20085.0 22955.0 24790.0
			25271.5
	APN Moscow, RU, URS	A	12222.5 16155.0
		E	15910.0 16075.0 16145.0 16250.0
		F	15693.0 16020.0 16040.0 18200.0
			18520.0 19035.0 19725.0
		P	16300.0
		R	10865.0 11615.0 12285.0 14580.0
			15720.0 16135.0 18170.0 18635.0
		R/F	20925.0
	APS El Djaza'ir, ALG	A	14932.0
	ATA Tirana, ALB	E	9133.0
		F	9430.0
	DIPLO Noumea, NCL	F	16106.0
	DIS Tokyo, J	E	13765.0
	DPA Hamburg, D	G	110.6
	EPD/SID Frankfurt, D	G	140.3
	GNA Manama, BHR	A	9197.5 14764.0
	HAB HambuRügen R, Dg, D	G	22361.0
	INA Baghdad, IRQ	A	14699.0
		E	13524.0 14373.0
	JANA Tripoli, LBY	A	14573.0
	KCNA Pyongyang, KRE	E	11536.0 14452.0
	KPL Vientiane, LAO	E	10114.0 14640.0
	KYODO Tokyo, J	E	5097.5 15945.0
	MAP Rabat, MRC	A	14574.4 18496.1 19171.1
	MEA Delhi, IND	E	14785.0 18255.0
	MENA Cairo, EGY	A	10150.0 15845.0
		E	13653.0
		F	15935.0
	NA Buenos Aires, ARG	S	10805.0
	Oostende R, BEL	Dutch	5376.5
	PANA Dakar, SEN	E	19383.0
		E/F	16117.0
	PETRA Amman, JOR	A	9463.0 14560.0
	PIAB Bonn, D	G	16017.4 18704.3 23545.0
	PIAB Singapore, SNG	G	22913.0
	PL Habana, CUB	E	8140.0 13826.5
	PL Moscow, RU, URS	F	18600.0
		P	19505.0
	ROMPRES Bucharest, ROU	E	9797.0
	SANA Damascus, SYR	A	11080.0
	Sevastopol' R, UK, URS	R	17153.0
	SPK Phnom Penh, CBG	E	9829.0
	SUNA Khartoum, SDN	F	19463.0
	TANJUG Belgrade, YUG	E	7658.0 11604.0 12212.5 13440.0
			16343.0 18050.0
		F	15705.0
		SC	5112.0
	TASS Moscow, RU, URS	A	14720.0 17360.0
		E	12085.0 12315.0 14490.0 14510.0
			14700.0 15575.0 16050.0 16140.0
			18125.0 18385.0 18405.0 19845.0
		F	10120.0 15710.0 15930.0 16190.0
			16260.0 17510.0 18160.0 19105.0
			19210.0 19235.0
		P	18540.0

0900	TELAM Buenos Aires, ARG	S	4004.5 10893.5
	VNA Hanoi, VTN	V	9124.0
	VoA La Union, Poro I., PHL	E	19792.5
	VoA Tanger, MRC	E	13770.0 19914.8
	VWD Frankfurt, D	G	129.1
	XINHUA Beijing, CHN	E	6915.0 14367.0 14760.0 16136.0 17470.0 18872.0
		F	17443.0
		R	14376.0
0930	CNA Taipei, TAI	E	7695.0 10960.0 13563.0 16224.0
1000	AA Ankara, TUR	E	18040.0
	ANSA Rome, I	E	8030.0 8062.0 12108.0 20085.0 24790.0 25271.5
	APN Moscow, RU, URS	E	15910.0 16075.0 16145.0
		F	12222.5 15693.0 16020.0 16040.0 18200.0 18520.0
		P	16060.0 16300.0 18455.0 19725.0 22843.0
		R	10465.0 10865.0 11615.0 12285.0 14580.0 16135.0 18635.0 20965.0
	APS El Djaza'ir, ALG	E	14932.0
	ATA Tirana, ALB	E	9133.0
		F	9430.0
	CNA Taipei, TAI	E	7695.0 10960.0 13563.0 16224.0
	DIPLO Noumea, NCL	F	16106.0
	DPA Hamburg, D	G	110.6
	EPD/SID Frankfurt, D	G	140.3
	GNA Manama, BHR	A	9197.5 14764.0
	IRNA Tehran, IRN	E	18561.0 19200.0 19980.0
	JANA Tripoli, LBY	A	14573.0
	JIJI Tokyo, J	S	10200.0
	KCNA Pyongyang, KRE	E	8152.0 10580.0 11432.0 11536.0 13780.0 14452.0 14568.0 15633.0
	Klaipeda R, LI, URS	R	17138.0
	KYODO Singapore, SNG	E	20960.0
	KYODO Tokyo, J	E	5097.5 12275.0 14547.5
	MAP Rabat, MRC	A	14574.4 18496.1 19171.1
		F	7842.4 10213.0 10634.1 14760.0 15752.7 16000.0 18220.9
	MEA Delhi, IND	E	14785.0 18255.0
	MENA Cairo, EGY	A	10150.0 15845.0
		E	15935.0
	Moscow R, RU, URS	R	12930.0
	MTI Budapest, HNG	E	9114.0
	NA Buenos Aires, ARG	S	10805.0
	PANA Dakar, SEN	E	19383.0
		E/F	16117.0
	PETRA Amman, JOR	A	9463.0 14560.0
	PIAB Bonn, D	G	18704.3 23545.0
	PIAB Singapore, SNG	G	22913.0
	PL Moscow, RU, URS	F	18600.0
		P	19505.0
	ROMPRES Bucharest, ROU	F	9797.0
	Rügen R, D	G	4242.5 12909.0 17183.0
	SANA Damascus, SYR	A	11080.0
	SPK Phnom Penh, CBG	E	9255.5
		F	9829.0
	SUNA Khartoum, SDN	A	15731.0
		E	18788.0

1000	TANJUG Belgrade, YUG	E	7658.0 11604.0 12212.5 13440.0 16343.0 18050.0
		F	15705.0
		SC	5112.0
	TASS Moscow, RU, URS	A	17360.0 19210.0 19235.0
		E	12315.0 14490.0 14510.0 14700.0 15575.0 16050.0 16140.0 18125.0 18385.0 18405.0
		F	10120.0 15710.0 15930.0 16190.0 16260.0 17510.0 18160.0 18195.0 18310.0 19105.0
		P	17600.0
	TELAM Buenos Aires, ARG	S	7428.5
	VNA Hanoi, VTN	V	8135.7 9124.0
	VoA Greenville, NC, USA	E	10380.8 10382.2
	VoA La Union, Poro I., PHL	F	19792.5
	VoA Tanger, MRC	E	13770.0
		F	19914.8
	VWD Frankfurt, D	G	129.1
	XINHUA Beijing, CHN	E	14367.0 14760.0 16136.0 17470.0 18872.0
		F	17443.0
1030	Rügen R, D	G	4242.5 8608.5
1100	AA Ankara, TUR	Turk.	18040.0
	ANSA Rome, I	F	8030.0 8062.0 12108.0 15693.5 20085.0 22955.0 24790.0 25271.5
	APN Moscow, RU, URS	A	16020.0 17550.0
		E	15910.0 16075.0 16145.0
		F	18520.0
		P	16300.0 22843.0
		R	10865.0 11615.0 12285.0
	APS El Djaza'ir, ALG	E	14932.0
	ATA Tirana, ALB	E	9430.0
		F	7850.0
	DIPLO Noumea, NCL	F	16106.0
	DPA Hamburg, D	G	110.6
	DyN Buenos Aires, ARG	S	7954.5
	EPD/SID Frankfurt, D	G	140.3
	GNA Manama, BHR	A	9197.5 14764.0
	Helsinki R, FNL	Finnish	17427.5
	INA Baghdad, IRQ	A	14373.0
		E	13524.0 14373.0
	IRNA Tehran, IRN	A	18561.0 19980.0
		E	19200.0
	JANA Tripoli, LBY	A	14573.0
		F	15462.0
	JIJI Tokyo, J	S	10200.0
	KCNA Pyongyang, KRE	E	15633.0
	MAP Rabat, MRC	F	7842.4 10213.0 10634.1 14760.0 15752.7 16000.0 18220.9
	MEA Delhi, IND	E	14785.0 18255.0
	MENA Cairo, EGY	A	10150.0 15845.0
		F	15935.0
	MTI Budapest, HNG	E	9114.0
	PANA Dakar, SEN	E	19383.0
		E/F	16117.0
	PAP Warsaw, POL	E	11494.0
	PETRA Amman, JOR	A	14560.0
	PIAB Bonn, D	G	25320.6 26441.5
	PIAB Singapore, SNG	G	22913.0

1100	PL Moscow, RU, URS	F	19505.0
		P	18600.0
	PL Tokyo, J	S	10710.0
	ROMPRES Bucharest, ROU	E	12110.0
	SANA Damascus, SYR	A	11080.0
	SPK Phnom Penh, CBG	E	9255.5
	TANJUG Belgrade, YUG	E	7658.0 11604.0 12212.5 13440.0
		F	15705.0
		SC	5112.0
	TAP Tunis, TUN	A	13610.0
	TASS Moscow, RU, URS	A	10105.0 14720.0 17360.0 19210.0
		E	12315.0 14490.0 14510.0 14700.0 15575.0 16050.0 16140.0 18125.0 18385.0 18405.0
		F	10120.0 15710.0 15930.0 16190.0 16260.0 17510.0 18160.0 18310.0 18340.0 19105.0
		P	17600.0
	VNA Hanoi, VTN	F	8135.7 11420.0
		V	9124.0
	VoA Greenville, NC, USA	E	10380.8 10382.2
	VoA La Union, Poro I., PHL	F	19792.5
	VoA Tanger, MRC	F	13770.0 19914.8
	VWD Frankfurt, D	G	129.1
	XINHUA Beijing, CHN	E	14367.0 14760.0 16136.0 17470.0 18872.0
		E	6915.0 17214.0
		F	17443.0
		R	14376.0
1130	VNA Hanoi, VTN	F	13656.0
		V	8135.7
1145	KCNA Pyongyang, KRE	F	8152.0 10524.0 11536.0
1200	AA Ankara, TUR	Turk.	18040.0
	ANSA Rome, I	E	8030.0 8062.0 12108.0 15693.5 20085.0 22955.0 24790.0
	APN Moscow, RU, URS	E	16145.0
		P	16300.0 19127.0 22843.0
	APS El Djaza'ir, ALG	F	14932.0
	ATA Tirana, ALB	F	7850.0
	BTA Sofia, BUL	E	11110.0 13400.0 15555.0
	DIPLO Noumea, NCL	F	16106.0
	DPA Hamburg, D	G	110.6
	EPD/SID Frankfurt, D	G	140.3
	GNA Manama, BHR	A	9197.5 14764.0
	INA Baghdad, IRQ	F	13524.0 14373.0
	IRNA Tehran, IRN	A	18561.0 19980.0
		E	19200.0
	JANA Tripoli, LBY	A	14573.0
	JIJI Tokyo, J	S	10200.0
	KCNA Pyongyang, KRE	F	8152.0 10524.0 11536.0 13580.0
	MAP Rabat, MRC	E	7842.4 10213.0 14574.4 14760.0 15752.7 16000.0 18220.9 18496.1 19171.1
	MEA Delhi, IND	E	14785.0 18255.0
	MENA Cairo, EGY	A	10150.0 15845.0
		E	15935.0
		F	13653.0
	NA Buenos Aires, ARG	S	10805.0
	PANA Dakar, SEN	E/F	16117.0

1200	PAP Warsaw, POL	Polish	7892.5	11423.5	11494.0	13541.5
			13602.4	14362.0	14597.0	18648.5
			18993.5	20286.5	20933.5	20936.5
	PIAB Bonn, D	G	23692.6	25320.6	26441.5	
	PL Habana, CUB	E	14901.0	16348.0		
	PL Moscow, RU, URS	P	18600.0	19505.0		
	PL Tokyo, J	S	10710.0			
	ROMPRES Bucharest, ROU	E	12110.0			
	SANA Damascus, SYR	A	11080.0			
	SPK Phnom Penh, CBG	F	9255.5			
	TANJUG Belgrade, YUG	E	7658.0	11604.0	12212.5	13440.0
		F	15705.0	20204.0		
		SC	5112.0			
	TASS Moscow, RU, URS	A	10105.0	14720.0	17360.0	19210.0
			19235.0			
		Armen.	19830.0			
		E	12315.0	14490.0	14510.0	14700.0
			15575.0	16050.0	16140.0	18125.0
			18385.0	18405.0		
		F	10120.0	15710.0	15930.0	16190.0
			16260.0	17510.0	18160.0	18310.0
			19105.0			
		P	17600.0	19127.0		
	VNA Hanoi, VTN	F	11420.0	16383.0		
		V	9124.0			
	VoA Tanger, MRC	E	13770.0	19914.8		
	VWD Frankfurt, D	G	129.1			
	XINHUA Beijing, CHN	E	14367.0	14760.0	14795.5	16136.0
			17214.0	17470.0	18872.0	
		F	17443.0			
	YONHAP Soul, KOR	E	11602.5			
1215	KCNA Pyongyang, KRE	F	14452.0			
1220	KYODO Tokyo, J	E	8175.0			
1230	KCNA Pyongyang, KRE	R	9395.0	11430.0	13780.0	15633.0
1300	AA Ankara, TUR	E	18040.0			
	ANSA Rome, I	E	8030.0			
	APN Moscow, RU, URS	A	16060.0			
		E	16145.0			
		F	18455.0			
	APS El Djaza'ir, ALG	F	14932.0			
	Athens R, GRC	Greek	13095.5	17208.5	22585.5	
	BTA Sofia, BUL	E	11110.0	13400.0	15555.0	
	DPA Hamburg, D	G	110.6			
	EPD/SID Frankfurt, D	G	140.3			
	GNA Manama, BHR	A	9197.5	14764.0		
	INA Baghdad, IRQ	A	5867.0	7565.0	10162.5	
		E	13524.0	14373.0		
	IRNA Tehran, IRN	A	19980.0			
	KCNA Pyongyang, KRE	F	10524.0	11536.0	14452.0	
		R	11430.0	13780.0	15633.0	
	MAP Rabat, MRC	E	7842.4	10213.0	14574.4	14760.0
			15752.7	16000.0	18220.9	18496.1
			19171.1			
	MEA Delhi, IND	E	14785.0	18255.0		
	MENA Cairo, EGY	A	10150.0	15845.0		
		F	15935.0			
	PANA Dakar, SEN	E/F	16117.0			
	PIAB Bonn, D	G	11123.6	23692.6	25320.6	26441.5
	PL Habana, CUB	E	14901.0	16348.0		
	PL Moscow, RU, URS	P	18600.0	19505.0		

1300	SANA Damascus, SYR	A	11080.0
	TANJUG Belgrade, YUG	E	7658.0 11604.0 12212.5 13440.0 16343.0 20204.0
		F	15705.0
		SC	5112.0
	TAP Tunis, TUN	F	13610.0
	TASS Moscow, RU, URS	A	17360.0 19210.0
		Armen.	19830.0
		E	10270.0 12085.0 12315.0 14490.0 14510.0 14700.0 15575.0 16050.0 16140.0 18125.0 18385.0 18405.0 19845.0 20615.0
		F	10120.0 14720.0 15710.0 15930.0 16190.0 16260.0 17510.0 18050.0 18160.0 18195.0 18310.0 18340.0 18410.0 19105.0
		P	17600.0 19127.0
	VNA Hanoi, VTN	F	11420.0 16383.0
	VoA Tanger, MRC	E	19914.8
	VWD Frankfurt, D	G	129.1
	XINHUA Beijing, CHN	E	14367.0 14760.0 14795.5 16136.0 17470.0 18872.0
1315	Moscow R, RU, URS	G	17228.0
1330	AA Ankara, TUR	Turk.	18040.0
	BTA Sofia, BUL	E	11502.0
	CNA Taipei, TAI	E	7695.0 10960.0 13563.0 16224.0
	JIJI Singapore, SNG	E	16150.0 17430.0
	Rügen R, D	G	8608.5 17183.0
	VNA Hanoi, VTN	V	11420.0
1345	PIAB Bonn, D	G	123.7 8132.0 13927.7
1400	AA Ankara, TUR	Turk.	8137.5 18040.0
	AFP Victoria Island, HKG	F	7542.5
	ANSA Rome, I	F	8030.0 8062.0 12108.0 15693.5 20085.0 20372.0
	APN Moscow, RU, URS	E	16145.0
		F	18455.0
	APS El Djaza'ir, ALG	A	14932.0
	ATA Tirana, ALB	F	10435.0
	CNA Taipei, TAI	E	7695.0 10960.0 13563.0 16224.0
	DPA Hamburg, D	G	110.6
	EPD/SID Frankfurt, D	G	140.3
	GNA Manama, BHR	A	9197.5 14764.0
	INA Baghdad, IRQ	A	5867.0 7565.0 10162.5
		E	13524.0 14373.0
	JANA Tripoli, LBY	A	10518.0
		F	12186.0
	KCNA Pyongyang, KRE	F	10524.0 11536.0
		R	11430.0 13780.0 15633.0
	KYODO Tokyo, J	E	5097.5 14595.0
	MEA Delhi, IND	E	14785.0 18255.0
	MENA Cairo, EGY	A	5220.0 10150.0 15845.0
		E	15935.0
	Oostende R, BEL	Dutch	5376.5
	PANA Dakar, SEN	E/F	16117.0
	PAP Warsaw, POL	E	11497.0
		Polish	7892.5 11423.5 13541.5 13602.4 14597.0 18993.5 20286.5 23405.0
	PETRA Amman, JOR	A	5055.0 9463.0
	PIAB Bonn, D	G	123.7 8132.0 13927.7 23697.6 25320.6

1400	PIAB Singapore, SNG	G	10217.5 11007.0 19535.0
	PL Habana, CUB	E	14901.0 16348.0
	PL Moscow, RU, URS	P	18600.0 19505.0
	SANA Damascus, SYR	A	11080.0
	SPK Phnom Penh, CBG	F	9255.5
	TANJUG Belgrade, YUG	E	7658.0 11604.0 12212.5 13440.0 20204.0
		F	15705.0 16343.0
		S	19865.5
		SC	5112.0
	TAP Tunis, TUN	A	13610.0
	TASS Moscow, RU, URS	A	17360.0
		A/F	19210.0 19235.0
		E	10270.0 12315.0 14490.0 14510.0 14700.0 15575.0 16050.0 16140.0 18125.0 18385.0 18405.0
		F	10120.0 14720.0 15710.0 15930.0 16190.0 16260.0 17510.0 18050.0 18160.0 18310.0
		P	17600.0 19127.0
	VNA Hanoi, VTN	E	9330.0 10600.0
		V	13656.0
	VWD Frankfurt, D	G	129.1
	XINHUA Beijing, CHN	E	6915.0 7520.0 7650.0 11680.0 12265.0 14367.0 14760.0 16136.0 18872.0
		F	11133.0
1415	SUNA Khartoum, SDN	A	15731.0
1430	PIAB Bonn, D	G	16017.4
	PIAB Singapore, SNG	G	18050.0
	VNA Hanoi, VTN	F	13656.0
1500	AA Ankara, TUR	Turk.	18040.0
	AFP Victoria Island, HKG	E	7542.5
	ANSA Rome, I	E	8030.0 8062.0 12108.0 15693.5 20085.0 20372.0 22955.0 24790.0
	APS El Djaza'ir, ALG	S	14932.0
	ATA Tirana, ALB	E	9430.0
		F	10435.0
	DPA Hamburg, D	G	110.6
	DyN Buenos Aires, ARG	S	11013.0
	EPD/SID Frankfurt, D	G	140.3
	GNA Manama, BHR	E	4042.5 14764.0
	INA Baghdad, IRQ	A	5867.0 7565.0 10162.5
		E	13524.0 14373.0
	IRNA Tehran, IRN	E	7801.0 7959.0 19980.0
	JANA Tripoli, LBY	A	10518.0
		F	12186.0
	KCNA Pyongyang, KRE	E	9395.0 10580.0 13780.0
	MEA Delhi, IND	E	14785.0
	MENA Cairo, EGY	A	5220.0 7756.0 10150.0 15845.0
		F	13653.0 15935.0
	Moscow R, RU, URS	F	12930.0
	NAN Lagos, NIG	E	10602.5
	PANA Dakar, SEN	E/F	16117.0 19383.0 20327.5
	PAP Warsaw, POL	R	11494.0
	PETRA Amman, JOR	A	5055.0 9463.0
	PIAB Bonn, D	G	13927.7 16017.4 20022.4 23697.6
	PIAB Singapore, SNG	G	10217.5 11007.0 19535.0
	PL Habana, CUB	E	14901.0 16348.0
	Rogaland R, NOR	N	12682.5 13097.0

1500	Rügen R, D	G	22581.0
	SANA Damascus, SYR	A	11080.0
	TANJUG Belgrade, YUG	E	7658.0 11604.0 12212.5 13440.0
		F	15705.0 18050.0
		S	19865.5
		SC	5112.0
	TAP Tunis, TUN	F	13610.0 14800.0
	TASS Moscow, RU, URS	A	14720.0 17360.0
		E	10270.0 12315.0 14490.0 14510.0
			14700.0 15575.0 16050.0 16140.0
			18125.0 18385.0 18405.0
		F	10120.0 15710.0 15930.0 16190.0
			16260.0 17510.0 18160.0 18310.0
			18340.0 19210.0 19235.0
		P	17600.0 19127.0
	TELAM Buenos Aires, ARG	S	13540.0
	USIA New York, NY, USA	E	14638.0
	VNA Hanoi, VTN	E	9330.0 10600.0 11420.0
	VWD Frankfurt, D	G	129.1
	XINHUA Beijing, CHN	E	6915.0 11680.0 12265.0 14367.0
			14760.0 16136.0
		F	11133.0
1530	Lyngby R, DNK	Danish	13084.0 13093.5
	MAP Rabat, MRC	A	14574.4 18496.1 19171.1
		F	7842.4 10213.0 10634.1 14760.0
			15752.7 16000.0 18220.9
1600	AFP Victoria Island, HKG	E	7542.5
	ANSA Rome, I	F	8030.0 8062.0 15693.5 20085.0
			20372.0 22955.0 24790.0
	DPA Hamburg, D	G	110.6
	EPD/SID Frankfurt, D	G	140.3
	GNA Manama, BHR	E	4042.5 14764.0
	INA Baghdad, IRQ	A	5867.0 7565.0 10162.5
		E	13524.0 14373.0
	IRNA Tehran, IRN	E	7801.0 7959.0 19980.0
	JANA Tripoli, LBY	A	14573.0
		E	20560.0
		F	12186.0
	KCNA Pyongyang, KRE	E	9395.0 10580.0
	MAP Rabat, MRC	A	14574.4 18496.1 19171.1
		F	7842.4 10213.0 10634.1 14760.0
			15752.7 16000.0 18220.9
	MEA Delhi, IND	E	14785.0
	MENA Cairo, EGY	A	5220.0 7756.0 10150.0 15845.0
		E	7610.0 15935.0
	MONTSAME Ulan Bator, MNG	E	10337.0
	Moscow R, RU, URS	G	8707.5
	NAN Lagos, NIG	E	10602.5
	PANA Dakar, SEN	E/F	16117.0 19383.0
	PAP Warsaw, POL	E	5903.0 8192.5
	PIAB Bonn, D	G	13927.7 16017.4 20022.4 23697.6
	PIAB Singapore, SNG	G	10217.5 11007.0 19535.0
	PL Habana, CUB	E	14901.0 16348.0
	ROMPRES Bucharest, ROU	F	6972.0
	Rügen R, D	G	8608.5 17183.0 22401.0
	SANA Damascus, SYR	E	15020.0
	SUNA Khartoum, SDN	E	15731.0
		F	19463.0

1600	TANJUG Belgrade, YUG	E	7658.0 11604.0 12212.5 13440.0
		F	15705.0 18050.0
		S	19865.5
		SC	5112.0
	TAP Tunis, TUN	F	13610.0 14800.0
	TASS Moscow, RU, URS	A	17360.0
		A/F	19210.0
		E	10270.0 10790.0 12315.0 14490.0
			14510.0 14700.0 15575.0 16050.0
			16140.0 18125.0 18385.0 18405.0
		F	10120.0 12325.0 13490.0 15710.0
			15930.0 16190.0 16260.0 17510.0
			18050.0 18160.0 18310.0
		P	17600.0 19127.0
	TELAM Buenos Aires, ARG	S	13540.0
	USIA New York, NY, USA	E	14638.0 18542.5
	VNA Hanoi, VTN	E	10600.0 11420.0
		F	9330.0
	VoA Greenville, NC, USA	E	18215.0
	VWD Frankfurt, D	G	129.1
	XINHUA Beijing, CHN	E	11680.0 12265.0 14367.0 14760.0
		F	11133.0 14760.0
1615	MTI Budapest, HNG	E	15670.0
		F	10911.0
1630	AA Ankara, TUR	Turk.	8137.5
	ANA Aden, YEM	A	9965.0
	Lyngby R, DNK	Danish	4355.5 13093.5 17212.5 22570.0
			25437.0
	SANA Damascus, SYR	F	15020.0
	XINHUA Beijing, CHN	E	6915.0
1700	AA Ankara, TUR	Turk.	8137.5
	AFP Victoria Island, HKG	E	7542.5
	ANA Aden, YEM	A	9965.0
	ANSA Rome, I	E	8047.5 16066.8
	ANSA Singapore, SNG	E	10408.0 16265.0
	ATA Tirana, ALB	E	9430.0
		F	7850.0
	DPA Hamburg, D	G	110.6
	EPD/SID Frankfurt, D	G	140.3
	GNA Manama, BHR	A	4042.5 14764.0
	Goeteborg R, S	Swed.	2423.5 4268.6 8556.0 12818.0
			17024.0 22356.8
	Helsinki R, FNL	Finnish	17427.5
	INA Baghdad, IRQ	A	5867.0 7565.0 10162.5
		E	13524.0 14373.0
	IRNA Tehran, IRN	E	7801.0 7959.0 19980.0
	JANA Tripoli, LBY	A	10518.0 14573.0
		E	12186.0 20560.0
		F	15462.0
	MENA Cairo, EGY	A	5220.0 7756.0 10150.0 15845.0
		E	7610.0 10610.0 15935.0
		E/F	5275.0
		F	13653.0
	MONTSAME Ulan Bator, MNG	E	10337.0
	MTI Budapest, HNG	E	9114.0
	NAN Lagos, NIG	E	10602.5
	PANA Dakar, SEN	E/F	16117.0 19383.0
	PAP Warsaw, POL	E	6805.0 7845.0 10245.0 14362.0
			17492.0
		F	15508.5 18650.0

1700	PETRA Amman, JOR	E	5055.0 9463.0
	PIAB Bonn, D	G	20022.4 23697.6
	PIAB Singapore, SNG	G	10217.5 11007.0 19535.0
	PL Habana, CUB	E	14901.0 16348.0
	Rogaland R, NOR	N	8707.0 13081.0 13097.0 17199.5 17223.0
	ROMPRES Bucharest, ROU	E	6972.0
	SANA Damascus, SYR	E	11080.0
	SUNA Khartoum, SDN	A	15731.0
		E	18788.0
	TANJUG Belgrade, YUG	E	5240.0 7658.0 7806.0 7996.0
		F	10278.8 16343.0 18050.0
		SC	5112.0
	TAP Tunis, TUN	F	13610.0 14800.0
	TASS Moscow, RU, URS	A	10258.0 13490.0 16190.0 17360.0
		A/F	19210.0
		E	10270.0 10790.0 10865.0 11470.0 12315.0 12325.0 14510.0 14700.0 16050.0 18125.0 18385.0 18405.0 20615.0
		F	10165.0 13490.0 15710.0 15930.0 16260.0 17510.0 18050.0 18160.0 18195.0 18310.0
		P	12285.0 13490.0 17600.0 18540.0 19127.0
	TELAM Buenos Aires, ARG	S	13540.0
	USIA New York, NY, USA	E	14638.0 18542.5
	VNA Hanoi, VTN	E	10600.0 11420.0
	VoA Greenville, NC, USA	E	18215.0
	VWD Frankfurt, D	G	129.1
	XINHUA Beijing, CHN	E	7520.0 7650.0 11680.0 12265.0 14367.0 14760.0
		F	11133.0
1715	Helsinki R, FNL	Finnish	13087.5
1730	BTA Sofia, BUL	E	6960.0 7460.0
	IRNA Tehran, IRN	A	8049.0
	PL Tokyo, J	S	10710.0
1800	AA Ankara, TUR	Turk.	8137.5
	AFP Victoria Island, HKG	E	7542.5
	ANA Aden, YEM	E	9965.0
	ANSA Rome, I	E	8030.0 8047.5 8062.0 12083.0 12108.0 16066.8
	ATA Tirana, ALB	E	9430.0
		F	7850.0
	DPA Hamburg, D	G	110.6
	EPD/SID Frankfurt, D	G	140.3
	GNA Manama, BHR	A	4042.5 14764.0
	INA Baghdad, IRQ	A	5867.0 7565.0 10162.5
		E	13524.0 14373.0
	IRNA Tehran, IRN	A	7401.0 8049.0
	JANA Tripoli, LBY	A	10518.0
		E	12186.0 15462.0
	KCNA Pyongyang, KRE	E	7364.0 8020.0 8152.0 11475.0
		F	9395.0 11536.0
	MENA Cairo, EGY	A	5220.0 7756.0 10150.0 15845.0
		E	5275.0 13653.0
		F	7610.0
	NAN Lagos, NIG	E	10602.5
	PANA Dakar, SEN	E/F	16117.0 19383.0

1800	PAP Warsaw, POL	E	9391.0
		Polish	7892.5 11423.5 13541.5 13602.4 14597.0 18648.5 18651.5 20286.5
	PETRA Amman, JOR	E	5055.0
	PL Habana, CUB	E	14901.0 16348.0
	Rogaland R, NOR	N	4352.5 13097.0
	ROMPRES Bucharest, ROU	E	6972.0
	SANA Damascus, SYR	A	11080.0
	TANJUG Belgrade, YUG	E	5240.0 7658.0 7806.0
		F	10278.8
		S	17610.0
		SC	5112.0
	TASS Moscow, RU, URS	A	10258.0 12085.0 12285.0 13490.0
		E	10270.0 11470.0 14510.0 14700.0 18125.0
		F	15710.0 15930.0 16260.0 18160.0 18310.0 19210.0
		P	19127.0
	TELAM Buenos Aires, ARG	S	13540.0 18421.0
	USIA New York, NY, USA	E	14638.0 18542.5
	VNA Hanoi, VTN	F	10600.0
	VoA Greenville, NC, USA	E	18215.0
	XINHUA Beijing, CHN	E	7520.0 7650.0 14367.0 14760.0
		F	11133.0
1830	BTA Sofia, BUL	E	11502.0
	KCNA Pyongyang, KRE	E	12175.0
	Moscow R, RU, URS	R	12739.0
	XINHUA Beijing, CHN	E	6915.0
1900	AFP Victoria Island, HKG	E	7542.5
	ANGOP Moscow, RU, URS	F	9140.0
		P	7525.0
	ANSA Rome, I	E	8062.0
	ATA Tirana, ALB	F	7850.0
	BTA Sofia, BUL	E	6960.0
	DPA Hamburg, D	G	110.6
	DyN Buenos Aires, ARG	S	7954.5
	EPD/SID Frankfurt, D	G	140.3
	GNA Manama, BHR	A	4042.5 14764.0
	INA Baghdad, IRQ	A	5867.0 7565.0 10162.5
		E	13524.0 14373.0
	IRNA Tehran, IRN	A	7401.0
		E	7959.0 8049.0
	JANA Tripoli, LBY	E	12186.0
		F	15462.0
	KCNA Pyongyang, KRE	E	8020.0 11475.0 12175.0
		F	9395.0 11536.0
	MENA Cairo, EGY	A	5220.0 7756.0 10150.0 15845.0
		E	5275.0 7610.0 15935.0
	Moscow R, RU, URS	R	12930.0
	PAP Warsaw, POL	F	6848.0
	PL Habana, CUB	E	14901.0 16348.0
	Rogaland R, NOR	N	4351.0 4352.5 8707.0 12682.5 13081.0 13097.0 17199.5 17223.0
	ROMPRES Bucharest, ROU	E	6972.0
	SPK Phnom Penh, CBG	F	9255.5
	TANJUG Belgrade, YUG	E	5240.0
		F	7592.0

1900	TASS Moscow, RU, URS	A	10258.0 12285.0 14720.0
		E	8140.0 10270.0 14700.0 18125.0 19845.0
		F	10165.0 13490.0 15930.0 19210.0
	TELAM Buenos Aires, ARG	S	10893.5 13540.0 18421.0
	USIA New York, NY, USA	E	14638.0 18542.5
	VNA Hanoi, VTN	E	11420.0
	VoA Greenville, NC, USA	E	18215.0
	XINHUA Beijing, CHN	E	7520.0 7650.0 14367.0 14760.0
1915	Klaipeda R, LI, URS	R	6475.0
	TANJUG Belgrade, YUG	E	7658.0 7806.0
2000	AFP Victoria Island, HKG	E	7542.5
	ANGOP Moscow, RU, URS	P	7525.0 9140.0
	ANSA Rome, I	F	8062.0
	DPA Hamburg, D	G	110.6
	DyN Buenos Aires, ARG	S	7954.5 11013.0
	EPD/SID Frankfurt, D	G	140.3
	GNA Manama, BHR	A	4042.5 14764.0
	INA Baghdad, IRQ	A	5867.0
		E	13524.0 14373.0
	IRNA Tehran, IRN	E	7959.0 8049.0
	KCNA Pyongyang, KRE	E	8020.0 12175.0
		F	9395.0 11536.0
	MENA Cairo, EGY	A	5220.0 7756.0 10150.0 15845.0
		E	13653.0 15935.0
		F	5275.0 7610.0
	NA Buenos Aires, ARG	S	10805.0
	PAP Warsaw, POL	E	9391.0
	PL Habana, CUB	E	14901.0 16348.0
	TANJUG Belgrade, YUG	E	5240.0 7658.0
	TASS Moscow, RU, URS	A	19210.0
		E	10270.0 14490.0 14700.0 18125.0
	TELAM Buenos Aires, ARG	S	7428.5 10893.5 13540.0
	USIA New York, NY, USA	E	14638.0
	VoA Greenville, NC, USA	E	18215.0
	XINHUA Beijing, CHN	E	7520.0 7650.0 14760.0
2030	IRNA Tehran, IRN	A	7959.0 8049.0
2100	AFP Victoria Island, HKG	E	7542.5
	ATA Tirana, ALB	F	7850.0
	Athens R, GRC	Greek	13095.5 17208.5
	DPA Hamburg, D	G	110.6
	DyN Buenos Aires, ARG	S	7954.5 11013.0
	EPD/SID Frankfurt, D	G	140.3
	INA Baghdad, IRQ	A	5867.0
		E	13524.0 14373.0
	IRNA Tehran, IRN	A	7959.0 8049.0
	KCNA Pyongyang, KRE	E	11475.0
		F	11430.0
	MENA Cairo, EGY	A	5220.0 7756.0 10150.0 15845.0
		E	5275.0 13653.0
		F	10610.0 15935.0
	NA Buenos Aires, ARG	S	10805.0
	PAP Warsaw, POL	E	6805.0 7845.0
	PL Habana, CUB	E	14901.0 16348.0
	Rügen R, D	G	4242.5 8608.5
	TANJUG Belgrade, YUG	E	5240.0 7658.0
	TASS Moscow, RU, URS	A	12325.0 13490.0
		E	10270.0 10790.0 14700.0 16140.0
	TELAM Buenos Aires, ARG	S	3266.7 7428.5 10893.5 13540.0

2100	USIA New York, NY, USA	E	14638.0
		S	18542.5
	VoA Greenville, NC, USA	E	18215.0
	VoA Tanger, MRC	E	5460.0
	XINHUA Beijing, CHN	E	7520.0 7650.0
2130	KCNA Pyongyang, KRE	E	12175.0
		F	9395.0
	Moscow R, RU, URS	G	8645.0
2200	DyN Buenos Aires, ARG	S	4549.5 7954.5 11013.0
	INA Baghdad, IRQ	E	13524.0 14373.0
	KCNA Pyongyang, KRE	E	12175.0
		F	9395.0
	MENA Cairo, EGY	A	5220.0 7756.0 10150.0
		E	5275.0 7610.0 10610.0
		F	15935.0
	NA Buenos Aires, ARG	S	3840.0 10805.0
	PIAB Bonn, D	G	16017.4
	PL Habana, CUB	E	16348.0 18193.5
	TANJUG Belgrade, YUG	E	5240.0 7658.0 7806.0
	TASS Moscow, RU, URS	E	10270.0 11470.0
	TELAM Buenos Aires, ARG	S	3266.7 4004.5 7428.5 10893.5 13540.0
	USIA New York, NY, USA	E	14638.0
	VoA Greenville, NC, USA	E	10233.0 10234.3 10235.8 10237.2 18215.0
	VoA La Union, Poro I., PHL	E	11477.0
	VoA Tanger, MRC	E	5460.0 10972.0 12223.5 13770.0
	XINHUA Beijing, CHN	E	7520.0 7650.0
2300	DyN Buenos Aires, ARG	S	4549.5 7954.5 11013.0
	KCNA Pyongyang, KRE	F	9395.0 11430.0
	Klaipeda R, LI, URS	G	6475.0
	MENA Cairo, EGY	A	7756.0 10150.0
		E	7610.0 10610.0
	Moscow R, RU, URS	R	12980.0
	NA Buenos Aires, ARG	S	3840.0 10805.0
	TANJUG Belgrade, YUG	E	5240.0 7658.0
	TELAM Buenos Aires, ARG	S	3266.7 4004.5 7428.5 10893.5 13540.0
	VoA Greenville, NC, USA	E	10233.0 10234.3 10235.8 10237.2
	VoA La Union, Poro I., PHL	E	11477.0
	VoA Tanger, MRC	E	5460.0 10972.0 12223.5 13770.0
	XINHUA Beijing, CHN	E	7520.0 7650.0
2330	KCNA Pyongyang, KRE	F	11475.0 13580.0 ☺

10 Meteorological RTTY services in alphabetical order

Alphanumerical index of stations transmitting meteorological data. In addition, many air stations transmit meteorological bulletins.

Listed are
- country;
- name of the station;
- frequency (-ies) and corresponding call sign.

Not listed are
- irregular meteorological bulletins transmitted by military stations;
- harmonic or spurious emissions.

ALGERIA

El Djaza'ir Meteo	6981.8/7XA97 11601.0/7XA98

AMSTERDAM AND SAINT PAUL ISLANDS

Martin de Vivies Meteo	11420.0▪11550.0▪14434.5/FJY4

ANTARCTIC

OTC Mawson	11490.0/VLV
SAAM Molodezhnaya	9280.0▪10100.0▪13505.0▪13865.0▪14747.0▪15830.0/RUZU

ARGENTINA

AN Puerto Belgrano	11070.0/LOR

AUSTRALIA

Canberra Meteo, ACT	11030.0/AXM34 13920.0/AXM35 20469.0/AXM37

AZORES

PN Horta	13070.0/CTH3

BRAZIL

BN Rio de Janeiro	12795.0▪17122.0▪17160.0/PWZ

BULGARIA

Sofia Meteo	3253.0/LZF8 4813.0/LZA8 5455.0/LZF9 6795.0/LZM7 11063.0/LZU2

CANADA

CCG Halifax, NS	13090.5/VCS
CCG Vancouver, BC	4354.0/VAI
CF Halifax, NS	122.5■4271.0■6330.0■10536.0■13510.0/CFH

CHINA

Beijing Meteo	5180.5/BAA9 5730.0/BAA24 7350.5/BAF44 7815.0/BAA22 9193.0/BAA23 10320.0/BAA8 12922.0/BPK32 14340.0/BAF47
Chengdu Meteo	5844.0/BLM21 8190.0/BLM22 10470.0/BLM23
Lanzhou Meteo	6985.0/BSB29 13360.0/BSB35
Urumqi Meteo	3780.0■5190.0■11570.0/BZC75
Wuhan Meteo	4482.0/BJZ 25 5315.0/BJZ27 7863.0/BJZ21 10650.0/BJZ23

CZECHOSLOVAKIA

Prague Meteo	3196.0 4336.0 6392.0

DENMARK

Lyngby R	25437.0/OXZ

DIEGO GARCIA

USN Diego Garcia	7442.0/NKW

EGYPT

Cairo Meteo	3957.0■7317.2■11014.0■17632.5■18109.5/SUU

FRANCE

MOD Paris	5396.6/'RFFA'
Saint Lys R	6501.0/FFT31 8708.5/FFT41 13074.5/FFT61 17201.0/FFT81 22563.0/FFT91

GERMANY

Grengel Meteo	2195.5/DHM44 2209.0■2408.0■2622.5■2691.0/DHJ51 2822.0/DHN37 3035.5/DHJ51 3073.5/DHN37 3166.5■3318.0■3825.5■4785.5/DHJ51 4903.0/DHM44 4963.5/DHN37 5083.0■9318.0■11125.0■13526.0/DHJ51
Hamburg Meteo	4583.0/DDK2 7646.0/DDH7 11638.0/DDK8
Potsdam Meteo	2695.0 2770.0 4015.0 4045.0 7980.0/Y3I

GUAM

USCG Apra Harbour	8710.5▪13077.0▪17203.0▪22567.0/NRV

HAWAII

USAF Hickam AFB, Honolulu	7873.0▪9042.5▪16178.0▪17432.0▪17513.0▪23113.0/'PHWR'
USCG Honolulu	8718.0/NMO

HUNGARY

HN Budapest	4473.8/HAR

INDIA

Delhi Meteo	3192.5/VVD53 6978.0/VVD56 7580.0/VVD57 12075.0/VVD62 19400.0/VVD69
IN Bombay	12903.0/'RBSL'

INDONESIA

Jakarta Meteo	11500.0/8BB35

ITALY

Rome Meteo	3172.5/IMB1 5887.5/IMB2 11453.0/IMB3

JAPAN

Tokyo Meteo	5102.5/JMG2 7402.5/JMG3 14880.0/JMG4 19529.0/JMG5 23972.0/JMG6

JORDAN

Amman Meteo	10965.0/JYN41

KENYA

Nairobi Meteo	7460.5▪9041.0▪10384.2▪11123.5▪12313.0▪17363.0▪22865.0/5YE

KOREA (REPUBLIC OF)

Soul Meteo	11645.0/HLL6

MADAGASCAR

Antananarivo Meteo	7552.5/5ST41 17400.0/5ST83

MALAYSIA

Kuala Lumpur Meteo	9143.0/9MY58 18354.0/9MY63

MAURITIUS

Vacoas Meteo	3188.0/3BT2 7693.0/3BT3 15955.0/3BT4

MEXICO

Merida	7888.0

PAKISTAN

Karachi Meteo	19682.8/ARA
PN Karachi	20490.0/'RBSM'

POLAND

Warsaw Meteo	111.3/SOA211 129.5/SOA212 4497.0/SOE349 7997.0/SOH299

PORTUGAL

PN Lisbon	4235.5/CTV4 8526.5/CTW8 17056.7/CTV7

REUNION

FF Le Port	7895.0▪13845.0/'RFVI'
Saint Denis Meteo	16335.0/FZS63

ROMANIA

Bucharest Meteo	4002.0/YRR2 5400.0/YOG37 5731.0/YRR4

SAINT HELENA

Jamestown Meteo	6824.0▪9044.0▪17413.8▪23997.5/GHH

SAUDI ARABIA

Jeddah Meteo	3562.0/HZN 4570.0/HZN46 5740.0/HZN 7625.0/HZN47 10215.0/HZN48 12245.0/HZN 17590.0/HZN49 23370.0/HZN50

SENEGAL

Dakar Meteo	13665.0/6VU73 19747.5/6VU79

SOUTH AFRICA (REPUBLIC OF)

Cape Town R	13093.0/ZSC63 17206.5/ZSC64 22593.0/ZSC65
Pretoria Meteo	4018.0/ZRO5 7512.0/ZRO2 13542.0/ZRO3 18242.0/ZRO4
SAN Cape Town	12693.0/ZRQ

SPAIN

SN Cadiz	2721.0/EBC

THAILAND

Bangkok Meteo	7394.0/HSW64 10169.0/HSW63 10299.0/HSW62 17521.0/HSW61

TURKEY

Ankara Meteo	3550.0▪10424.0/YMA20
Bandirma Meteo	4560.3/YMB20

UNION OF SOVIET SOCIALIST REPUBLICS

Alma Ata Meteo, KA	3995.0/RXA71 10570.0/RWH79
Arkhangelsk Meteo, RU	3655.0/RVZ73 5345.0/RSW71 7760.0/RGH77 10205.0/RTP78
Baku Meteo, AZ	3795.0
Irkutsk Meteo, SE	4560.0/RKR74 5740.0/RKR78 6970.0/RBT54 7700.0/RTP72
Khabarovsk Meteo, SE	4445.0/RYP26 4910.0/RGO75 5785.0/RCR72 6830.0/RDW72 8085.0/RVL21 11520.0/RCR77 13803.0/RCR78
Kishinev Meteo, MO	3665.0/RYZ8
Kiyev Meteo, UK	3290.0/RGC 7. 4442.5/RGC72 6920.0/RGC70
Kuybishev Meteo, RU	3710.0/RGJ61 4530.0/RGJ62
Leningrad Meteo, RU	4900.0/RUU78
Moscow Meteo, RU	3330.0/RWZ72 5020.0/RWW74 5140.0/RWW73 7685.0/RBV75 7855.0/ROK24 9190.0/RDZ75 11450.0/RDD77 13530.0/RVW53
Nakhodka R, SE	22581.0/UKK3
Novosibirsk Met., SW	3590.0/ROF71 7715.0/RCU71 7890.0/ROQ3 15566.0/RTC26
SN Moscow, RU	22450.0/ROT
Tashkent Meteo, UZ	3750.0/RBV71 5430.0/RVM45
Tbilisi Meteo, GE	4455.0/RDM73 5335.0/RDM78

UNITED KINGDOM

BA London	5102.0▪9147.0/GXQ
Bracknell Meteo	4489.0/GFL26 6835.0/GFL22 10551.3/GFL23 14356.0/GFL24 18230.0/GFL25
Portishead R	13072.0/GKE5
RAF London	12152.0/MKT
RN London	12115.0/GYD
USAF AWS Crought.	15870.0/AJE
USAF Croughton	9237.5/AJE

UNITED STATES OF AMERICA

Chatham R, MA	8712.5▪8715.0▪13081.5▪13090.0▪17207.5▪17216.0▪ 22571.5/WCC
Mobile R, AL	4343.0▪4352.0▪6344.0▪6416.0▪6499.5▪8514.0▪8534.0▪ 8707.0▪12886.5▪13083.5▪17021.6▪17199.5▪22487.0▪ 22589.0/WLO
Ocean Gate R, NJ	8051.5/WOO
Slidell R, LA	13099.5/WNU
Tampa R, FL	8708.5/WPD
USAF AWS Offutt AFB, Omaha, NE	3229.0▪6902.0▪11118.0▪19324.0/AFS
USCG Boston, MA	13021.0▪16968.8▪17201.0/NMF

VIET NAM

Hanoi Meteo	7512.0▪7972.0▪12096.5▪14823.0/XVN

YUGOSLAVIA

Split Meteo	2959.0

UNID

stations	3745.0 4500.5 5469.5 5711.0 6343.0 6385.0 6945.0 11125.0 16183.0 ☺

11 Meteorological FAX schedules in alphabetical order

Schedules of meteorological stations and other stations transmitting facsimile information, in alphabetical order.

Listed are

- country;
- name of the station;
- frequencies and call signs;
- technical parameters (e.g. → 120/576 = 120 rpm / IOC 576);
- schedule.

Not listed are

- harmonic or spurious emissions.

The schedules are given in the following order:

- transmission start time;
- plain text description; or abbreviated heading, consisting of
  - data designator *t*t** (for decoding see chapter 4.3 in our AIR AND METEO CODE MANUAL);
  - geographical designator *AA* (for decoding see chapter 4.3 in our AIR AND METEO CODE MANUAL);
  - level designator *i*i** (see chapter 2.3 in our AIR AND METEO CODE MANUAL);
  - international four-letter location indicator *CCCC* of the station originating or compiling the bulletin (for decoding see chapter 11 in our AIR AND METEO CODE MANUAL);
  - reference or observation time, or the validity time indicated either as a fixed time (e.g. VT1800) or as a function of the reference time (e.g. H+24);
- chart details such as pressure levels etc.

Example 1: "0941 ASXX EGRR 0600" means "transmission start time 0941 UTC; surface analysis; no specific geographical designator appropriate; originating or compiling station Bracknell; reference time 0600 UTC".

Example 2: "0700 FUXN BABJ 1200 500 hPa (H+48)" means "transmission start time 0700 UTC; upper-air prognosis; Northern Hemisphere; originating or compiling station Peking (Beijing); reference time 1200 UTC; pressure level 500 hectopascal; validity time 48 hours".

Several stations give the chart identification number $cF_1F_2F_3F_4$ in one corner of the chart (examples see chapter 12 in our GUIDE TO FACSIMILE STATIONS), consisting of

- bulletin classification indicator c (= 9 for pictorial information - see chapter 4.3 in our AIR AND METEO CODE MANUAL);
- chart originating centre indicator F_1F_2 (for decoding see chapter 4.3 in our AIR AND METEO CODE MANUAL);
- chart serial number F_3F_4 in the series of charts distributed by that centre.

Example: Chart identification number "94137" indicates "chart number 37 distributed by RMC/AFC Buenos Aires".

Note: These schedules are modified frequently. Completely revised and updated schedules will be published in the next edition of our GUIDE TO FACSIMILE STATIONS.

ALASKA

USCG Kodiak	4298.0	NOJ
	8459.0	NOJ

→ 120/576

0400	• 0000 surface analysis • coastal marine forecast tables VT 1200/0000 • 3rd day surface forecast VT1200 • 4th day surface forecast VT1200 • 5th day surface forecast VT1200
1000	• 0600 surface analysis • surface forecast VT1200 next day • 5-day sea ice forecast • sea surface analysis from satellite and surface observations (Monday and Friday, plus Wednesday from October to February)
1800	• 1200 surface analysis • coastal marine forecast tables VT 0000/1200
2200	• 1800 surface analysis • surface forecast VT0000 end of next day • significant wave forecast VT1200 • sea ice analysis

USN Adak	8494.0	NUD

(schedule see under USN Pearl Harbour, Hawaii)

ARGENTINA

Buenos Aires Meteo	5185.0	LRO 69
	10720.0	LRB 72
	18093.0	LRO 84

→ 120/576

0400	ASAG SABM 0000
0810	AHAG SABM 0000 1000/500 hPa
0900	ANAG SABM 0600
0930	ASAG SABM 0000
1000	ANAG SABM 0600
1030	ASAG SABM 0900
1400	ANAG SABM 1200
1420	ASAG SABM 0900
1620	ASAG SABM 1200
1650	AUAG SABM 1200 500 hPa
1710	AUAG SABM 1200 850 hPa
1730	AUAG SABM 1200 tropopause and maximum wind
1750	AUAG SABM 1200 250 hPa
1810	AUAG SABM 1200 700 hPa
1850	ANAG SABM 1500/1800
1910	FSAG SABM VT1200
1930	FUAG SABM 500 hPa VT1200 (H+24) 400 hPa wind and temperature
1950	FUAG SABM 250 hPa VT1200 (H+24)
2010	FUAG SABM VT1200 850/150 hPa, significant weather
2030	FUAG SABM 700 hPa VT1200 (H+24)
2050	AHAG SABM 1200 1000/500 hPa, amount of precipitation
2130	ANAG SABM 1800/2100
2150	AWAG SABM 1200 state of sea
2220	FSAG SABM VT1200 (H+48)
2235	FUAG SABM 500 hPa VT1200 (H+48)
2250	FUAG SABM 300 hPa VT1200 (H+48)
2330	ANAG SABM 2300

AUSTRALIA

Canberra Meteo, ACT	2628.0	AXM 31
	5100.0	AXM 32
	11030.0	AXM 34
	13920.0	AXM 35
	20469.0	AXM 37

→ 120/576

0000	FSOC AMMC VT0000 (H+36)
0030	FSOC AMMC VT0600
0045	FSOC AMMC VT0000 (H+24)
0115	AXM schedule
0130	recommended frequencies for AXM reception
0200	ANOC AMMC 0000
0215	ASOC AMMC 0000
0300	AUOC AMMC 0000 500 hPa
0315	AUOC AMMC 0000 250 hPa
0330	FBAS AMMC VT1800 (H+12)
0345	FBOC AMMC VT1800 (H+12)
0400	FUOC AMMC 500 hPa VT0000 (H+24)
0415	FSOC AMMC VT0000 (H+24)
0530	FUOC AMMC VT0000 250 hPa
0545	AUOC AMMC 0000 maximum wind, tropopause
0605	AUXT ADDN 0000 gradient level wind analysis
0615	FBOC AMMC VT1200
0645	reserved for charts for Antarctic support summer season
0715	ASIO AMMC 0000
0730	FWOC AMMC VT0000 wind waves height
0745	FWOC AMMC swell waves height VT0000 (H+24)
0800	ASPS AMMC 0000
0815	ASOC AMMC 0600
0830	FUAS AMMC 250 hPa VT0000 (H+24)
0845	FUIO AMMC 250 hPa VT0000 (H+24)
0915	FBOC AMMC VT0000 (H+12)
0930	FBAS AMMC VT0000 (H+12)
0945	FUPS AMMC 250 hPa VT1200 (H+36)
1000	FUAS AMMC 250 hPa VT0600 (H+30)
1015	FUIO AMMC 250 hPa VT0600 (H+30)
1030	FUXS AMMC 500 hPa VT0000 (H+48)
1045	FSXS AMMC VT0000 (H+48)
1100	ASXS AMMC 0000
1115	• AOXT ADDN weely mean sea surface temperature (Tuesday) • AOXX AMMC weekly sea surface temperature and 250 hPa temperature analysis of SE Australian waters (Thursday)

	• AIAA AMMC ice boundary (Saturday, during summer)
1130	FBOC AMMC VT1800
1145	FWXS AMMC combined waves VT1200 (H+36)
1200	FSOC AMMC VT1200 (H+36)
1230	AUXS AMMC 0000 500 hPa
1300	FSIO AMMC VT1200 (H+36)
1345	reserved for charts for Antarctic support summer season
1415	ASOC AMMC 1200
1500	AUOC AMMC 1200 500 hPa
1515	FSOC AMMC VT1200 (H+24)
1530	FBAS AMMC VT0600
1545	FBOC AMMC VT0600
1600	FUOC AMMC 500 hPa VT1200 (H+24)
1615	FSOC AMMC VT1200 (H+24)
1715	AUOC AMMC 1200 250 hPa
1730	FUOC AMMC 250 hPa VT1200 (H+24)
1745	AUXT ADDN 1200 gradient level wind analysis
1830	FBOC AMMC VT0000
1915	ASIO AMMC 1200
2000	ASPS AMMC 1200
2015	ASOC AMMC 1800
2030	FUAS AMMC 250 hPa VT1200 (H+24)
2045	FUIO AMMC 250 hPa VT1200 (H+24)
2115	FUIO AMMC 250 hPa VT1800 (H+24)
2130	FBAS AMMC VT1200
2145	FBOC AMMC VT1200
2200	FUAS AMMC 250 hPa VT1800 (H+30)
2215	ASXS AMMC 1200
2230	FUPS AMMC 250 hPa VT0000 (H+36)
2245	FUXS AMMC 500 hPa VT0000 (H+36)
2300	FSXS AMMC VT1200 (H+48)
2330	AUXS AMMC 1200 500 hPa
2345	FSIO AMMC VT1200 (H+48)

Darwin Meteo, NT	5755.0	AXI 32
	7535.0	AXI 33
	10555.0	AXI 34
	15615.0	AXI 35
	18060.0	AXI 36

→ 120/576

0000	recommended frequencies for AXI reception
0030	AXI schedule
0200	current warnings summary in plain language
0215	ASOC AMMC 0000 MSL analysis
0330	FBAS AMMC VT1800 significant weather prognosis
0415	FSOC AMMC MSL prognosis VT0000 (H+24)
0605	AUXT ADDN 0000 gradient level wind analysis
0700	ASXT ADDN 0000 MSL pressure analysis
0800	AUXT ADDN 0000 500 hPa streamline
0820	current warnings summary in plain language
0830	FUAS AMMC 250 hPa VT0000 (H+24)
0905	AUXT ADDN 0000 250 hPa streamline
0930	FBAS AMMC VT0000 significant weather prognosis
1000	FUAS AMMC 250 hPa VT0600 (H+36)
1045	AUXT ADDN 0000 700 hPa streamline
1115	AOXT ADDN weekly mean sea surface temperature (Tuesday)
1400	current warnings summary in plain language
1430	ASOC AMMC 1200 MSL analysis
1530	FBAS AMMC VT0600 significant weather prognosis
1745	AUXT ADDN 1200 gradient level wind analysis
1955	AUXT ADDN 1200 500 hPa streamline
2030	FUAS AMMC 250 hPa VT1200 (H+24)
2045	current warnings summary in plain language
2100	AUXT ADDN 1200 250 hPa streamline
2130	FBAS AMMC VT1200 significant weather prognosis
2200	FUAS AMMC 250 hPa VT1800 (H+24)
2220	AUXT ADDN 1200 700 hPa streamline

USN Exmouth, WA	8614.0	NWC
	12721.5	NWC
	16914.5	NWC

(schedule see under USN Apra Harbour, Guam)

BULGARIA

Sofia Meteo	5092.5	LZJ 2

→ 120/576

0415	ASEU LZSO 0000
0435	ASEE LZSO 0300 (06 April - 25 September)
0510	ASEE LZSO 0300 (26 September - 05 April)
0550	AUEU LZSO 0000 850 hPa
0615	AUEU LZSO 0000 700 hPa (06 April - 25 September)
0715	AUEU LZSO 0000 700 hPa (26 September - 05 April)
0735	ASEE LZSO 0600
0800	test chart
0950	ASEU LZSO 0600
1030	ASEE LZSO 0900
1330	ASEE LZSO 1200

CANADA

CF Halifax, NS	122.5	CFH
	4271.0	CFH
	6330.0	CFH
	10536.0	CFH
	13510.0	CFH

→ 120/576

0001	significant weather depiction VT1200
0015	ice chart
0101	850 hPa wind/temperature/height forecast VT1800/0000

0301	500 hPa analysis 0000
0315	surface analysis 0000
0401	wave analysis 0000
0414	significant wave prognosis VT1200 (H+12)
0428	850 hPa analysis 0000
0501	isobaric prognosis VT0000 (H+24)
0514	significant wave prognosis VT0000 (H+24)
0601	significant weather depiction VT1800
0614	significant wave prognosis VT1200 (H+36)
0701	850 hPa wind/temperature/height forecast VT1800/0000
0801	isobaric prognosis VT1200 (H+36)
0814	sea surface temperatures Newfoundland (Wednesday, Saturday; OFA Tuesday), Nova Scotia (Sunday, Thursday; OFA Monday, Friday)
0901	surface analysis 0600
1001	isobaric prognosis VT1200 (H+36)
1014	• fleet broadcast schedule • test chart (Tuesday, Thursday, Saturday)
1101	ice chart
1201	significant weather depiction VT0000
1301	ice chart
1401	ice chart
1423	850 hPa wind/temperature/height forecast VT0600/1200
1501	500 hPa analysis 1200
1515	surface analysis 1200
1601	wave analysis 1200
1614	significant wave prognosis VT0000 (H+12)
1628	850 hPa analysis 1200
1701	isobaric prognosis VT1200 (H+24)
1714	significant wave prognosis VT1200 (H+24)
1801	significant weather depiction VT0600
1814	significant wave prognosis VT0000 (H+36)
1901	isobaric prognosis VT0000 (H+36)
2001	850 hPa wind/temperature/height forecast VT0600/1200
2014	sea surface temperatures Newfoundland (Monday, Wednesday, Saturday), Nova Scotia (Tuesday, Thursday, Friday, Sunday)
2101	OFA Newfoundland (Monday, Wednesday, Saturday), Nova Scotia (Tuesday, Thursday, Friday, Sunday)
2120	surface analysis 1800
2201	ice chart
2301	ice chart

CF Vancouver, BC	4268.0	CKN
	6456.0	CKN
	12753.0	CKN

→ 120/576

0245	broadcast schedule
0300	combined 850/500 hPa analysis 0000
0310	0000 surface analysis
0320	weather depiction prognosis VT1200 (H+12)
1025	test chart
1030	0600 surface analysis
1040	wave height prognosis VT0000 (H+18)
1050	wave height prognosis VT1200 (H+24)
1100	weather depiction prognosis VT1800 (H+12)
1110	weather depiction prognosis VT0600 (H+24)
1230	test chart
1235	surface prognosis VT0000 (H+18)
1245	surface prognosis VT1200 (H+24)
1515	test chart
1520	combined 850/500 hPa analysis 1200
1530	1200 surface analysis
2115	test chart
2120	weather depiction prognosis VT0000 (H+6)
2130	weather depiction prognosis VT1200 (H+18)
2140	surface prognosis VT1200 (H+18)
2150	surface prognosis VT0000 (H+30)
2200	1800 surface analysis
2210	wave height prognosis VT1200 (H+18)
2220	wave height prognosis VT0000 (H+30)
2230	• sea surface temperature analysis (Tuesday, Friday) • ocean analysis (Monday, Saturday)

Iqaluit Meteo, NWT	3253.0	VFF
	7710.0	VFF

→ 120/576

0952	ASAC 0600 surface analysis
1006	FSAC surface prognosis (H+24)
2000	STAC observed ice conditions
2155	ASAC 1800 surface analysis
2209	FSAC surface prognosis (H+24)
2335	AIAC local ice conditions

CHILE

CN Santiago	4766.0	CCS
	6418.0	CCS
	8594.0	CCS
	13525.0	CCS
	22071.0	CCS

→ 120/576

1130	ASCH SCSC 0600
1920	AXCH SCSC 1200
1940	ANCH SCSC 1200
2310	ASCH SCSC 1800
2330	FSCH SCSC 1800

DGTMMM Valparaiso R	4228.0	CBV
	8677.0	CBV
	17144.4	CBV

→ 120/576

1130	schedule and surface analysis
1920	nephanalysis
1940	sea state analysis
2310	surface analysis

2330	surface prognosis

CHINA

Beijing Meteo	5527.0	BAF 6
	8122.0	BAF 36
	10117.0	BAF 4
	14367.0	BAF 8
	16025.0	BAF 9
	18237.0	BAF 33

→ 120/576

0000	FXCI BABJ 700 hPa $T - T_d$ VT1200 (H+36) FXCI50 BABJ 12 - 36 h height changes (500 hPa) VT1200 FXCI BABJ 500/1000 hPa thickness VT1200 (H+36) FXCI85 BABJ 850 hPa temperature VT1200 (H+36)
0020	FXAS BABJ 500 hPa VT1200 synoptic trend prognosis for the next dekad (10., 20. and at the end of each month) FSCI BABJ precipitation VT1200 (H+24, H+36, H+48)
0040	AUAS70 BABJ 1200 700 hPa retransmission of 2000
0100	AXCI70 BABJ 1200 700 hPa wind speed AXCI BABJ 1200 500/850 hPa Θ_{se} AXCI85 BABJ 1200 850 hPa wind speed AXCI70 BABJ 1200 700 hPa Θ_{se}
0120	AXCI70 BABJ 1200 700 hPa $T - T_d$ AXCI70 BABJ 1200 700 hPa vapour flux divergence AXCI BABJ 1200 500/1000 hPa thickness AXCI85 BABJ 1200 850 hPa temperature
0140	0000 typhoon warning (in clear English and Chinese) (in case of typhoon)
0200	FSXN BABJ pressure VT1200 (H+36) FSXN BABJ pressure VT1200 (H+48)
0220	FXCI BABJ minimum temperature (H+36) (from 01 October to 30 April) FXCI BABJ maximum temperature (H+48) (from 01 May to 30 September)
0240	FXCI BABJ precipitation (H+24, H+48) (from 01 May to 30 September) FSCI BABJ minimum temperature (H+60) (from 01 October to 30 April)
0300	satellite picture analysis (from 01 May to 30 September)
0320	USAS85 BABJ 0000 850 hPa plotted data
0340	USAS70 BABJ 0000 700 hPa plotted data
0400	USAS50 BABJ 0000 500 hPa plotted data
0420	FSAS BABJ pressure VT1800 (H+48)
0440	ASAS BABJ 0000 pressure
0500	FUXN BABJ ECMWF 500 hPa VT1200 (H+48) FUXN BABJ ECMWF 500 hPa VT1200 (H+72)
0520	FUXN BABJ ECMWF 500 hPa VT1200 (H+96) FUXN BABJ ECMWF 500 hPa VT1200 (H+120)
0540	AUAS BABJ 0000 500 hPa
0600	AUAS BABJ 0000 700 hPa
0620	AUAS BABJ 0000 850 hPa
0640	radar echo (from 01 June to 30 September)
0700	satellite picture analysis (from 01 May to 30 September)
0720	AUCI BABJ 0000 700 hPa vertical P-velocity AUCI BABJ 0000 500 hPa vorticity FSCI BABJ precipitation VT0000 (H+24) FSCI BABJ precipitation VT0000 (H+36)
0740	0600 typhoon warning (in clear English and Chinese) (in case of typhoon)
0800	ASXT BABJ 0000 pressure
0840	radar echo (from 01 June to 30 September)
0920	CUXN BABJ 1200 monthly mean ultra-long wave (8. of each month) FUAS BABJ VT1200 500 hPa height for the next month (24. of each month) CUXN BABJ 1200 500 hPa mean height for the preceding pentad (3., 7., 13., 17., 23., and 27. of each month)
0940	CUXN50 BABJ 1200 500 hPa monthly mean spherical harmonic coefficient and mean kinetic energy (7. of each month) CUXN BABJ 1200 500 hPa mean height for the preceding dekad (3., 13., 23. of each month) FXCI BABJ VT1200 precipitation anomaly percentage for the next month (24. of each month)
0950	FUCI BABJ VT1200 mean temperature anomaly for the next month (24. of each month)
1000	CUXN BABJ 1200 500 hPa mean vorticity anomaly (7. of each month) CUXN BABJ 1200 500 hPa mean height of the preceding month (3. of each month) CUXN BABJ 1200 500 hPa monthly mean circulation characteristic value and sea temperature (13. of each month)
1020	CUXN BABJ 500 hPa height anomaly of the preceding month (3. of each month)
1040	FSPW BABJ typhoon track forecast VT0000 (unfixed issue of forecast according to typhoon development)
1100	test chart (Monday)
1107	programme amendments (13. of each month)
1340	1200 typhoon warning (in clear English and Chinese) (in case of typhoon)
1900	USAS50 BABJ 1200 500 hPa plotted data
1920	ASXX BABJ 1200 pressure
1940	1800 typhoon warning (in clear English and Chinese) (in case of typhoon)
2000	AUAS BABJ 1200 700 hPa
2020	AUXN BABJ 1200 100 hPa AUXN BABJ 1200 200 hPa
2040	AUXN BABJ 1200 300 hPa AUXN BABJ 1200 500 hPa

2100 USAS BABJ 1200 850 hPa plotted data
2120 USAS BABJ 1200 700 hPa plotted data
2140 AXCI BABJ 1200 500 hPa vorticity
AXCI BABJ 1200 700 hPa vapour flux
AXCI BABJ 1200 700 hPa vertical P-velocity
AXCI BABJ 1200 850 hPa vapour flux
2200 AXXN BABJ 1200 24-hour pressure changes
FUXN BABJ 500 hPa VT1200 (H+72)
2220 FUXN BABJ 500 hPa VT1200 (H+48)
FUXN BABJ 700 hPa VT1200 (H+36)
2240 FSPW BABJ typhoon track forecast VT1200 (unfixed issue of forecast according to typhoon development)
2300 FXCI50 BABJ 500 hPa vorticity VT1200 (H+36)
FXCI50 BABJ 500 hPa vorticity VT1200 (H+48)
FXCI70 BABJ 700 hPa vertical P-velocity VT1200 (H+36)
FXCI70 BABJ 700 hPa vertical P-velocity VT1200 (H+48)
2320 FXCI70 BABJ 700 hPa vapour flux VT1200 (H+36)
FXCI70 BABJ 700 hPa vapour flux VT1200 (H+48)
FXCI85 BABJ 850 hPa vapour flux VT1200 (H+36)
FXCI70 BABJ 700 hPa vapour flux divergence VT1200 (H+48)
2340 FXCI70 BABJ 700 hPa wind speed VT1200 (H+36)
FXCI BABJ 500/850 hPa Θ_{se} VT1200 (H+36)
FXCI85 BABJ 850 hPa wind speed VT1200 (H+36)
FXCI70 BABJ 700 hPa Θ_{se} VT1200 (H+36)

CZECHOSLOVAKIA

Prague Meteo 111.8 OLT 21

→ 120/576
0010 SDCZ OKPR 0000 radar reports
→ 90/576
0040 SMXX OKPR 0000 with plotted data
→ 120/576
0110 SDCZ OKPR 0100 radar reports
0210 SDCZ OKPR 0200 radar reports
0310 SDCZ OKPR 0300 radar reports
→ 90/576
0320 UXXX OKPR 0000 absolute topography 850/700/500/300 hPa
0340 SMXX OKPR 0300 with plotted data
0440 UXXX OKPR 0000 TEMP 11520, 11952
→ 120/576
0500 FSXX OKPR 0000 (H+24)
0510 SDCZ OKPR 0500 radar reports
0540 ASXX OKPR 0000
0600 AUXX OKPR 0000 absolute topography 700 hPa, relative topography 500/1000 hPa (Monday - Saturday)
0610 SDCZ OKPR 0600 radar reports
→ 90/576
0640 SMXX OKPR 0600 with plotted data
→ 120/576
0710 SDCZ OKPR 0700 radar reports
0740 AUXX OKPR 0000 absolute topography 850 hPa (Monday - Saturday)
→ 90/576
0750 UXXX OKPR 0000 TEMP 11535, 11722
→ 120/576
0810 SDCZ OKPR 0800 radar reports
→ 90/576
0850 UXXX OKPR 0300 TEMP 11467, 11653
→ 120/576
0910 SDCZ OKPR 0900 radar reports
→ 90/576
0940 SMXX OKPR 0900 with plotted data
→ 120/576
1010 SDCZ OKPR 1000 radar reports
1100 FSXX OKPR 0000 (H+48) (Monday - Friday)
1110 SDCZ OKPR 1100 radar reports
1130 FSXX OKPR 0000 (H+72) (Monday - Friday)
1140 ASXX OKPR 0600
1200 FSXX OKPR 0000 (H+96)
1210 SDCZ OKPR 1200 radar reports
1230 FSXX OKPR 0000 (H+120)
→ 90/576
1240 SMXX OKPR 1200 with plotted data
→ 120/576
1310 SDCZ OKPR 1300 radar reports
1410 SDCZ OKPR 1400 radar reports
→ 90/576
1450 UXXX OKPR 0900 TEMP 11467, 11653
→ 120/576
1510 SDCZ OKPR 1500 radar reports
1520 UXXX OKPR 1200 absolute topography 850/700/500/300 hPa
→ 90/576
1540 SMXX OKPR 1500 with plotted data
1640 UXXX OKPR 1200 TEMP 11520, 11952
1650 UXXX OKPR 1200 TEMP 11722, 11535
→ 120/576
1710 SDCZ OKPR 1700 radar reports
1740 ASXX OKPR 1200
1800 AUXX OKPR 1200 absolute topography 700 hPa, relative topography 500/1000 hPa (Monday - Saturday)
1810 SDCZ OKPR 1800 radar reports
→ 90/576
1840 SMXX OKPR 1800 with plotted data
→ 120/576
1910 SDCZ OKPR 1900 radar reports
1940 AUXX OKPR 1200 absolute topography 850 hPa (Monday - Saturday)
2010 SDCZ OKPR 2000 radar reports
2110 SDCZ OKPR 2100 radar reports
→ 90/576
2140 SMXX OKPR 2100 with plotted data
→ 120/576
2210 SDCZ OKPR 2200 radar reports
2310 SDCZ OKPR 2300 radar reports

Prague Meteo	124.6	OLT 3

→ 120/576

H+05	SDCZ OKPR
H+30	satellite picture Europe

→ 120/288

1540	UXXX OKPR pressure/temperature diagrams
1550	UXXX OKPR pressure/temperature diagrams
1640	UXXX OKPR pressure/temperature diagrams
1650	UXXX OKPR pressure/temperature diagrams

DENMARK

Copenhagen Meteo	5850.0	OXT
	9360.0	OXT
	13855.0	OXT
	17510.0	OXT

→ 120/576

0003	STGL EKMI ice chart
0028	STGL EKMI ice chart
0943	STGL EKMI ice chart
1008	STGL EKMI ice chart
1153	STGL EKMI ice chart
1218	STGL EKMI ice chart
1243	STGL EKMI ice chart
1308	STGL EKMI ice chart
1333	STGL EKMI ice chart
1803	STGL EKMI ice chart
1828	STGL EKMI ice chart

DIEGO GARCIA

USN Diego Garcia	7582.0	NKW
	12806.0	NKW
	20302.0	NKW

(schedule see under USN Apra Harbour, Guam)

EGYPT

Cairo Meteo	4526.0	SUU
	10123.0	SUU

→ 120/576

0000	FSEG HECA VT0600
0020	ASEG HECA 1800
0340	FUEG HECA VT1200 500 hPa
0400	FUEG HECA VT1200 300 hPa
0420	FUEG HECA VT1200 200 hPa
0440	FBEG HECA VT1200
0500	FXEG HECA VT1200 tropopause, maximum wind
0520	FUEG HECA VT1200 700 hPa
0540	FUEG HECA VT1200 250 hPa
0600	FSEG HECA VT1200
0700	ASEG HECA 0000
0720	AUEG HECA 0000 700 hPa
0740	AUEG HECA 0000 500 hPa
0800	AUEG HECA 0000 300 hPa
0820	AUEG HECA 0000 250 hPa
0840	AUEG HECA 0000 200 hPa
0900	AUEG HECA 0000 tropopause, maximum wind
0920	AUEG HECA 0000 100 hPa
0940	FUEG HECA VT1800 500 hPa
1000	FUEG HECA VT1800 300 hPa
1020	FUEG HECA VT1800 200 hPa
1040	FBEG HECA VT1800
1100	FXEG HECA VT1800 tropopause, maximum wind
1120	FUEG HECA VT1800 700 hPa
1140	FUEG HECA VT1800 250 hPa
1200	FSEG HECA VT1800
1220	ASEG HECA 0600
1240	ANEG HECA
1540	FUEG HECA VT0000 500 hPa
1600	FUEG HECA VT0000 300 hPa
1620	FUEG HECA VT0000 200 hPa
1640	FBEG HECA VT0000
1700	FXEG HECA VT0000 tropopause, maximum wind
1720	FUEG HECA VT0000 700 hPa
1740	FUEG HECA VT0000 250 hPa
1800	FSEG HECA VT0000
1900	ASEG HECA 1200
1920	AUEG HECA 1200 700 hPa
1940	AUEG HECA 1200 500 hPa
2000	AUEG HECA 1200 300 hPa
2020	AUEG HECA 1200 250 hPa
2040	AUEG HECA 1200 200 hPa
2100	AUEG HECA 1200 tropopause, maximum wind
2120	AUEG HECA 1200 100 hPa
2140	FUEG HECA VT0600 500 hPa
2200	FUEG HECA VT0600 300 hPa
2220	FUEG HECA VT0600 200 hPa
2240	FBEG HECA VT0600
2300	FXEG HECA VT0600 tropopause, maximum wind
2320	FUEG HECA VT0600 700 hPa
2340	FUEG HECA VT0600 250 hPa

GERMANY

Grengel Meteo	2342.5	DHJ 51
	4570.5	DHJ 51

→ 120/576

0225	6-panel "EDZX NR 9ZX55 T. LOG P. ... 00Z" pressure/temperature diagrams of various stations
0247	6-panel "EDZX NR 9ZX56 T. LOG P. ... 00Z" pressure/temperature diagrams of various stations
0307	"GEOPOT 500/850 HPA 00Z+00/24H LFM ... TEMP 500/850 HPA 00Z+00/24H LFM ... EDZX NR 9ZX65" North Atlantic, Europe

0350 "C.T.F." chart English Channel / North Sea area
0400 "SYNOP 03Z EDZX NR 9ZX62" Central Europe
0423 "GEOPOT 400 HPA 00Z+12/24H LFM... TEMP 400 HPA 00Z+12/24H LFM ... DDDFF 400 HPA 00Z+12/24H LFM ... FL240X EDZX NR 9ZX46" North Atlantic, Europe
0528 "TIEFFLUGWETTER-UEBERWACHUNG 05Z ... EDZX NR 9ZY56" Germany
0547 "MESOSCALE-VORHERSAGE EDZX NR 9ZY91" 0000 (H+12, H+24, H+36) Central Europe
0700 "SYNOP 06Z EDZX NR 9ZX63" West and Central Europe
→ 120/288
0723 "EDZX 9ZX02 CTA ..0600Z" Central Europe
→ 120/576
0733 "TIEFFLUGWETTER-UEBERWACHUNG 07Z ... EDZX NR 9ZY58" Germany
0754 "MESOSCALE-VORHERSAGE EDZX NR 9ZZ71" 0000 (H+12, H+24, H+36) Central Europe
0816 6-panel "UPAIR 06Z EDZX NR 9ZX72" 300/400/500/700/850/1000 hPa Europe
0835 "TIEFFLUGWETTER-UEBERWACHUNG 08Z ... EDZX NR 9ZY59" Germany
0858 3-panel "SEEGANGSVORHERSAGE ANALYSE/PROGNOSE ... 00 Z + 00/24/36 H EDZX 9ZX92 HFSV" North Sea
→ 240/288
0924 AUEU EDZW 0000 500 hPa contour lines (gpdam), isotherms (°C)
FUEU EDZW 0000 (H+24, H+48, H+72) 850 hPa contour lines (gpdam), isotherms (°C) (BKF)
0935 FUEU EDZW 0000 (H+24) 700/300/200/100 hPa contour lines (gpdam), isotherms (°C) (BKF)
0950 UNID chart
→ 120/576
1000 "SYNOP 09Z EDZX NR 9ZX61" West and Central Europe
1022 "EDZX NR 9ZX60" pressure/temperature diagrams
1035 "EDZX Nr. 9ZX51 RR-SUMMEN/RR-PROG" Central Europe
1058 "EDZX NR 9ZX52 SCHNEEHOEHENKARTE" Germany
→ 120/288
1255 "EDZL GEOPHYSICS SEA SURFACE TEMPERATURE °C" North Sea
1324 "EDZX 9ZX03 CTA ..1200Z" Central Europe
1334 "BODENZUSTANDS-VORHERSAGE SÜD" VT0600 Alpen, Bayrischer Wald, Hochschwarzwald, Oberpfalz
→ 120/576
1346 6-panel "EDZX NR 9ZY37 T. LOG P. ... 12Z" pressure/temperature diagrams of various stations
1410 6-panel "EDZX NR 9ZX73 UPAIR 850/700/500/400/300 hPa, 500/1000 hPa 12Z" Europe
1428 "GEOPOT 500/850 HPA 12Z+ 00H TEMP 500/850 HPA 12Z+ 00H EDZX NR 9ZY0." North Atlantic, Europe
1440 6-panel "EDZX NR 9ZY38 T. LOG P. ... 12Z" pressure/temperature diagrams of various stations
1500 "EDZX NR 9ZY08"
→ 120/288
1600 surface prognosis map "EDZX Nr. 9ZX15" Northern Europe
→ 120/576
1607 surface analysis map "SYNOP 15Z" Western Europe
1624 "MESOSCALE-VORHERSAGE EDZX NR 9ZY94" 1200 (H+00, H+12, H+24, H+36) Central Europe
1639 "GEOPOT 400 HPA 12Z+12/24H LFM... WINDS 400 HPA 12Z+12/24H LFM ... TEMP 400 HPA 12Z+12/24H LFM ... FL240X EDZX NR 9ZX48" North Atlantic, Europe
1705 "EDZX Nr 9ZX15 C.T.F. ..0300-..0900" Central Europe
1725 "TIEFFLUGWETTER-UEBERWACHUNG 17Z ... EDZX NR 9ZY68" Germany
1745 "SEEGANGSVORHERSAGE ZEITLICHER VERLAUF ... 00Z + 36 H EDZX 9ZX93 HFSV" for 9 North Sea positions
1840 "TIEFFLUGWETTER-UEBERWACHUNG 18Z ... EDZX NR 9ZY69" Germany
2015 6-panel "UPAIR 18Z EDZX NR 9ZX74" 300/400/500/700/800/1000 hPa Europe
2040 "TIEFFLUGWETTER-UEBERWACHUNG 20Z" Germany
2200 "SYNOP 21Z EDZX NR 9ZX68" West and Central Europe

Hamburg Meteo	3855.0	DDH 3
	7880.0	DDK 3
	13882.5	DDK 6

→ 120/576
0520 ASEU EDZW 0000 with plotted data
0540 AUEU EDZW 0000 500 hPa with plotted data
0600 FSEU EDZW 0000 (H+24)
FUEU EDZW 0000 500/1000 hPa (H+24)
0611 ASEU/AUEU/FSEU/FUEU EDZW 0000 analysis, prognosis (H+24, H+48, H+72) surface MSL pressure (hPa), 850 hPa isotherms (°C), 700 hPa relative humidity (%), 500 hPa contour lines (gpdam) and isotherms (°C) (BKF)
0631 AUEU/FUEU EDZW 0000 850 hPa analysis, prognosis (H+24, H+48, H+72) contour lines (gpdam) and isotherms (°C)
0651 FSEU/FUEU EDZW 0000 (H+96, H+120, H+144) surface MSL pressure (hPa), 850 hPa isotherms (°C), 700 hPa relative humidity (%), 500 hPa contour lines (gpdam) and isotherms (°C) (BKF)
0711 AUEU EDZW 0000 500 hPa
0731 FSEU EDZW 0000 (H+24)
FUEU EDZW 0000 500/1000 hPa (H+24)

0745	ASNT EDZW 0000 with plotted data
→ 120/288	
0852	sea surface temperatures North Sea
0906	ice conditions chart West Baltic Sea and West Atlantic (irregularly)
→ 120/576	
0922	FSEU EDZW 0000 (H+48, H+72)
0933	FSEU EDZW 0600 (H+24) FSEU EDZW 0600 12-hour amount of precipitation (BKN)
1000	ASEU EDZW 0600 with plotted data
1345	ice conditions chart North Baltic Sea 0900 (irregularly)
1408	ASXN EDZW 0000 with plotted data
1430	• schedule (Monday) • test chart (Thursday - Sunday)
1520	wave prediction North Atlantic VT1200 (H+36)
1541	ice conditions chart Central Baltic Sea 0900 (irregularly) (weekdays during a winter with large extension)
1557	ASEU EDZW 1200 with plotted data
1758	FSEU EDZW 1200 (H+24) FUEU EDZW 1200 500/1000 hPa (H+24)
1809	AUEU EDZW 1200 500 hPa
→ 120/288	
1830	AUEU/FUEU EDZW 1200 850 hPa analysis, prognosis (H+24, H+48, H+72) contour lines (gpdam) and isotherms (°C)
→ 120/576	
1845	ASNT EDZW 1200 with plotted data
1941	ASEU/AUEU/FSEU/FUEU EDZW 1200 analysis, prognosis (H+24, H+48, H+72) surface MSL pressure (hPa), 850 hPa isotherms (°C), 700 hPa relative humidity (%), 500 hPa contour lines (gpdam) and isotherms (°C) (BKF)
2001	• 5-day mean sea surface temperature North Atlantic (Tuesday, Friday) • ASEU/AUEU/FSEU/FUEU EDZW 1200 analysis, prognosis (H+24, H+48, H+72) surface MSL pressure (hPa), 850 hPa isotherms (°C), 700 hPa relative humidity (%), 500 hPa contour lines (gpdam) and isotherms (°C) (BKF) (Monday, Wednesday, Thursday, Saturday, Sunday)
2021	sea ice observations
2042	• ice conditions chart Baltic Sea 1500 (irregularly) (Monday to Friday) • ice conditions chart Baltic Sea 0900 (irregularly) (Saturday, Sunday)
→ 120/288	
2126	ice conditions chart West Atlantic (irregularly)
→ 120/576	
2140	wave prediction North Atlantic VT1200 (H+36)
2201	ASEU EDZW 1800 with plotted data
2241	FSEU EDZW 1800 (H+24) FSEU EDZW 1800 12-hour amount of precipitation (BKN)

Offenbach Meteo 117.4 DCF 37

→ 120/576	
0000	FUXX EGRR 1200 NAT FL340 VT1200
0012	FUXX EGRR 1200 NAT FL300 VT1200
0024	FUXX EGRR 1200 NAT FL390 VT1200
0036	FUXX EGRR 1200 NAT FL180 VT1200
0055	FUEU20 EDZW 1200 EUR FL390 VT1200 FUEU30 EDZW 1200 EUR FL300 VT1200
0117	FUEU25 EDZW 1200 EUR FL340 VT1200
0129	FUEU40 EDZW 1200 EUR FL240 VT1200 FUEU50 EDZW 1200 EUR FL180 VT1200
0151	FUEU70 EDZW 1200 EUR FL100 VT1200 FUEU85 EDZW 1200 EUR FL50 VT1200
0224	FBXX EGRR NAT FL 250-150 VT1200 significant weather, tropopause, maximum wind
0236	FBXX EDZW MID FL 250-450 VT1200 significant weather, tropopause, maximum wind
0248	FBEU EDZW EUR FL 100-450 VT1200 significant weather, tropopause, maximum wind
0301	FUAF LFPW 1200 AFI FL300 VT1200
0313	FUAF LFPW 1200 AFI FL340 VT1200
0325	FBAF LFPW 1200 AFI VT1200 significant weather
0337	FBEU EDZW CEU surface - FL100 VT1200 significant weather
0507	UXEU3 EDZW 0000 TEMP, RAWIN list 3 (Stüve diagram up to 225 hPa)
0530	FUXX20 EDZW 0000 MID FL390 VT1800 FUXX30 EDZW 0000 MID FL300 VT1800
0552	FUXX25 EDZW 0000 MID FL340 VT1800
0606	FUXX EGRR 0000 NAT FL340 VT1800
0618	FUXX EGRR 0000 NAT FL300 VT1800
0630	FUXX EGRR 0000 NAT FL390 VT1800
0642	FUXX EGRR 0000 NAT FL180 VT1800
0655	FUEU20 EDZW 0000 EUR FL390 VT1800 FUEU30 EDZW 0000 EUR FL300 VT1800
0717	FUEU25 EDZW 0000 EUR FL340 VT1800
0729	FUEU40 EDZW 0000 EUR FL240 VT1800 FUEU50 EDZW 0000 EUR FL180 VT1800
0751	FUEU70 EDZW 0000 EUR FL100 VT1800 FUEU85 EDZW 0000 EUR FL50 VT1800
0813	test chart
0824	FBXX EGRR NAT FL 250-450 VT1800 significant weather, tropopause, maximum wind

0836	FBXX EDZW MID FL 250-450 VT1800 significant weather, tropopause, maximum wind
0848	FBEU EDZW EUR FL 100-450 VT1800 significant weather, tropopause, maximum wind
0901	USEU EDZW 0000 plotted data, tropopause and maximum wind
0921	UXEU EDZW 0300 or 0600 TEMP, RAWIN - selected ascents
0941	FUXX LFPW 0000 EURSAM FL300 VT1800
0953	FUXX LFPW 0000 EURSAM FL340 VT1800
1005	FBXX LFPW 0000 EURSAM VT1800 significant weather
1125	FUXX20 EDZW 0000 MID FL390 VT0000
	FUXX30 EDZW 0000 MID FL300 VT0000
1147	FUXX25 EDZW 0000 MID FL340 VT0000
1200	FUXX EGRR 0000 NAT FL340 VT0000
1212	FUXX EGRR 0000 NAT FL300 VT0000
1224	FUXX EGRR 0000 NAT FL390 VT0000
1236	FUXX EGRR 0000 NAT FL180 VT0000
1255	FUEU20 EDZW 0000 EUR FL390 VT0000
	FUEU30 EDZW 0000 EUR FL300 VT0000
1317	FUEU25 EDZW 0000 EUR FL340 VT0000
1329	FUEU40 EDZW 0000 EUR FL240 VT0000
	FUEU50 EDZW 0000 EUR FL180 VT0000
1351	FUEU70 EDZW 0000 EUR FL100 VT0000
	FUEU85 EDZW 0000 EUR FL50 VT0000
1424	FBXX EGRR NAT FL 250-450 VT0000 significant weather, tropopause, maximum wind
1436	FBXX EDZW MID FL 250-450 VT0000 significant weather, tropopause, maximum wind
1448	FBEU EDZW EUR FL 100-450 VT0000 significant weather, tropopause, maximum wind
1501	FUAF LFPW 0000 AFI FL300 VT0000 1513
	FUAF LFPW 0000 AFI FL390 VT0000
1525	FBAF LFPW 0000 AFI VT0000 significant weather
1537	FBEU EDZW CEU surface - FL100 VT0000 significant weather
1549	FUXX LFPW 0000 EURSAM FL300 VT0000
1601	FUXX LFPW 0000 EURSAM FL340 VT0000
1613	FBXX LFPW 0000 EURSAM VT0000 significant weather
1707	UXEU3 EDZW 1200 TEMP, RAWIN list 3 (Stüve diagram up to 225 hPa)
1730	FUXX20 EDZW 1200 MID FL390 VT0600
	FUXX30 EDZW 1200 MID FL300 VT0600
1752	FUXX25 EDZW 1200 MID FL340 VT0600
1855	FUEU20 EDZW 1200 EUR FL390 VT0600
	FUEU30 EDZW 1200 EUR FL300 VT0600
1917	FUEU25 EDZW 1200 EUR FL340 VT0600
1929	FUEU40 EDZW 1200 EUR FL240 VT0600
	FUEU50 EDZW 1200 EUR FL180 VT0600
1951	FUEU70 EDZW 1200 EUR FL100 VT0600
	FUEU85 EDZW 1200 EUR FL50 VT0600
2014	USEU EDZW 1200 plotted data, tropopause and maximum wind
2036	FBXX EDZW MID FL 250-450 VT0600 significant weather, tropopause, maximum wind
2048	FBEU EDZW EUR FL 100-450 VT0600 significant weather, tropopause, maximum wind
2325	FUXX20 EDZW 1200 MID FL390 VT1200
	FUXX30 EDZW 1200 MID FL300 VT1200
2347	FUXX25 EDZW 1200 MID FL340 VT1200

Offenbach Meteo 134.2 DCF 54

→ 120/576	
0103	METEOSAT-infrared-channel-image Europe 0000
0122	SMEU EDZW 0000 plotted data
0144	METEOSAT-infrared-channel-image full disk 0000
0200	experimental transmission
→ 120/288	
0230	UXEU1 EDZW 0000 TEMP, RAWIN list 1 (Stüve diagram up to 225 hPa)
0241	UXEU2 EDZW 0000 TEMP, RAWIN list 2 (Stüve diagram up to 225 hPa)
→ 120/576	
0252	USEU EDZW 0000 plotted data 850/700/500/400/300/200 hPa
0315	METEOSAT-enhanced-infrared-channel-images Europe 2100/2300/0100/0200
0340	AUEU EDZW 0000 relative topography, 500/1000 hPa with plotted data
	FXEU EDZW 0000 prognosis (H + 12) stability field (K_0) and vertical motion
0349	ASEU/AUEU/FSEU/FUEU EDZW 0000 analysis, prognosis (H + 24) 500 hPa contour lines (gpdam), 700 hPa relative humidity, 850 hPa isotherms (°C), surface MSL pressure (hPa) (BKF)
0400	ASEU EDZW 0000 with plotted data
0420	SIEU EDZW 0300 plotted data
→ 120/288	
0440	analysis 0000, prognosis (H + 12, H + 24) • 500 hPa vorticity advection • 500/950 hPa thickness

• 500/700 hPa omega forcing
or 625 hPa omega
• 850 hPa frontogenesis parameters
0451 UXEU4 EDZW 0000 TEMP, RAWIN list 4
(Stüve diagram up to 225 hPa)
→ 120/576
0457 AUEU EDZW 0000 500 hPa
with plotted data
0517 FSEU EDZW 0000 (H+24)
FUEU EDZW 0000 (H+24)
500/1000 hPa (BKF)
0528 AUEU EDZW 0000 300 hPa
with plotted data
0548 AUEU EDZW 0000 850/700 hPa
with plotted data
→ 120/288
0608 AUEU EDZW 0000 850 hPa
contour lines (gpdam), isotherms (°C)
FUEU EDZW 0000 (H+24, H+48,
H+72) 850 hPa contour lines (gpdam),
isotherms (°C) (BKF)
0619 AUEU EDZW 0000 500 hPa
contour lines (gpdam), isotherms (°C)
FUEU EDZW 0000 (H+24, H+48,
H+72) 500 hPa contour lines (gpdam),
isotherms (°C) (BKF)
0630 FUEU EDZW 0000 (H+24)
700/300/200/100 hPa contour lines
(gpdam), isotherms (°C) (BKF)
→ 120/576
0643 METEOSAT-infrared-channel-image
Europe 0600
0701 AUEU EDZW 0000 200 hPa
with plotted data
0721 SMEU EDZW 0600 plotted data
0741 FSEU/FUEU EDZW 0000 (H+12, H+36,
H+60, H+84) 500 hPa contour lines
(gpdam), isotherms (°C), surface MSL
pressure (hPa), 850 hPa isotherms (°C),
700 hPa relative humidity (BKF)
0801 FSEU EDZW 0000
24-hour amount of precipitation
(H+24, H+48, H+72) (BKN)
0810 FSEU/FUEU EDZW 0000 (H+96,
H+120, H+144) 500 hPa contour lines
(gpdam), isotherms (°C), surface MSL
pressure (hPa), 850 hPa isotherms (°C),
700 hPa relative humidity (BKF)
0830 USEU EDZW 0600 plotted data
850/700/500/400/300/200 hPa
0852 METEOSAT-visual-channel-image
Europe 0730, or METEOSAT-
enhanced-infrared-channel-images
Europe 0300/0500/0700/0800
0909 agrometeorological transmission No. 1
0922 FSEU EDZW 0000 (H+48, H+72)
0933 FSEU EDZW 0600 (H+24)
FSEU EDZW 0600 12-hour amount
of precipitation 1800-0600 (mm) (BKN)
0944 SMEU EDZW extremes of temperature
SMDL EDZW extremes of temperature
and amount of precipitation
of previous 24 hours
1000 ASEU EDZW 0600 with plotted data
1020 SIEU EDZW 0900 plotted data
1040 test chart or
1040 AXDL EDZW thermopluviogram
(10. of each month, or on the 12.
if the 10. is a Sunday or Monday)
1050 AUXN EDZW 0000 300 hPa
with plotted data
1112 FUXX KWBC 0000 500 hPa (H+48)
1125 FUXX KWBC 0000 500 hPa (H+72)
1138 agrometeorological transmission No. 2 or
SMEU EDZW heights of snow
(Tuesday and Friday in winter;
height of snow cover in cm)
1151 experimental transmission
1225 METEOSAT-visual-channel-image
Europe 1030
1244 METEOSAT-infrared-channel-image
Europe 1200
1300 METEOSAT-visual-channel-image
Europe 1200
1319 SMEU EDZW 1200 plotted data
1340 FSEU EDZW VT1200
chart provided to press agencies
1350 experimental transmission
1408 ASXN EDZW 0000 with plotted data
→ 120/288
1430 UXEU1 EDZW 1200 TEMP, RAWIN list 1
(Stüve diagram up to 225 hPa)
1441 UXEU2 EDZW 1200 TEMP, RAWIN list 2
(Stüve diagram up to 225 hPa)
→ 120/576
1452 USEU EDZW 1200 plotted data
850/700/500/400/300/200 hPa
→ 120/288
1512 UXEU4 EDZW 1200 TEMP, RAWIN list 4
(Stüve diagram up to 225 hPa)
→ 120/576
1518 FUEU EDZW 1200
trajectories 950, 850, 700 hPa
1539 METEOSAT-enhanced-infrared-channel-
images Europe 0900/1100/1300/1500
1557 ASEU EDZW 1200 with plotted data
1617 SIEU EDZW 1500 plotted data
1637 AUEU EDZW 1200 relative topography,
500/1000 hPa with plotted data
FXEU EDZW 1200 prognosis (H+12)
stability field (K_0) and vertical motion
→ 120/288
1646 analysis 1200, prognosis (H+12, H+24)
• 500 hPa vorticity advection
• 500/950 hPa thickness
• 500/700 hPa omega forcing
or 625 hPa omega
• 850 hPa frontogenesis parameters
→ 120/576
1657 AUEU EDZW 1200 500 hPa
with plotted data
1717 FSEU EDZW 1200 (H+24)
FUEU EDZW 1200 (H+24)
500/1000 hPa (BKF)
1728 AUEU EDZW 1200 300 hPa
with plotted data
1748 AUEU EDZW 1200 850/700 hPa
with plotted data
→ 120/288
1808 FUEU EDZW 1200 700/300/200/100 hPa
(H+24) contour lines (gpdam),
isotherms (°C) (BKF)
1819 AUEU EDZW 1200 500 hPa
contour lines (gpdam), isotherms (°C)

FUEU EDZW 1200 (H+24, H+48, H+72) 500 hPa contour lines (gpdam), isotherms (°C) (BKF)
1830 AUEU EDZW 1200 850 hPa contour lines (gpdam), isotherms (°C)
FUEU EDZW 1200 (H+24, H+48, H+72) 850 hPa contour lines (gpdam), isotherms (°C) (BKF)

→ 120/576
1843 METEOSAT-infrared-channel-image Europe 1800
1901 AUEU EDZW 1200 200 hPa with plotted data
1921 SMEU EDZW 1800 plotted data
1941 FSEU/FUEU EDZW 1200 (H+24, H+48, H+72, H+96) 500 hPa contour lines (gpdam), isotherms (°C), surface MSL pressure (hPa), 850 hPa isotherms (°C), 700 hPa relative humidity (BKF)
2001 CSNT EDZW 5-day mean of water temperature (Tuesday and Friday)
2021 USEU EDZW 1800 plotted data 850/700/500/400/300/200 hPa
2143 METEOSAT-enhanced-infrared-channel-images Europe 1500/1700/1900/2100
2201 ASEU EDZW 1800 with plotted data
2221 SIEU EDZW 2100 plotted data
2241 FSEU EDZW 1800 (H+24)
FSEU EDZW 1800 12-hour amount of precipitation 0600-1800 (mm) (BKN)

Note: The stability field K_0 (isolines in °C) represents a smoothed vertical gradient of the potential equivalent:
K_0 less than zero: potentially unstable
K_0 equal to zero: indifferent
K_0 more than zero: stable

GUAM

USN Apra Harbour	5258.0	NPN
	10253.0	NPN
	19858.0	NPN
	25478.0	NPN

→ 120/576
0010 FSP FBNH significant weather prognosis VT1200 (H+36)
0030
- FSP ocean gradients (Monday, Thursday)
- sea surface temperature analysis (South) (Tuesday, Friday)
- sea surface temperature analysis (North) (Wednesday, Saturday)
- FSP CZ probability (Sunday)

0050
- open (Monday, Thursday, Sunday)
- sea surface temperature analysis (South) (Tuesday, Friday)
- FSP SLD analysis (Wednesday, Saturday)

0105 0000 satellite imagery West Pacific
0120 300 hPa prognosis West Pacific VT1200 (H+36)
0135 850 hPa prognosis West Pacific VT1200 (H+48)
0150 700 hPa prognosis West Pacific VT1200 (H+48)
0205 500 hPa prognosis West Pacific VT1200 (H+48)
0220 300 hPa prognosis West Pacific VT1200 (H+48)
0235 0000 tropical cyclone warning
0250 0000 satellite imagery Micronesia
0305 open
0320 open
0335 0200 satellite imagery full disk
0350 0000 preliminary surface analysis West Pacific
0405 NORAPS surface prognosis VT0000 (H+24)
0420 NORAPS surface prognosis VT0000 (H+36)
0435 NORAPS surface prognosis VT0000 (H+48)
0450 0300 satellite imagery West Pacific
0505 ASEH 0000 final surface analysis
0525 0000 500 hPa analysis Central Pacific
0540 0000 300 hPa analysis Central Pacific
0555 NOGAPS surface prognosis West Pacific VT0000 (H+24)
0610 NOGAPS surface prognosis West Pacific VT0000 (H+36)
0625 NOGAPS surface prognosis West Pacific VT0000 (H+48)
0640 0600 satellite imagery West Pacific
0655 FSP MSEH 0000 significant wave height analysis
0715 0000 850 hPa analysis West Pacific
0730 0000 700 hPa analysis West Pacific
0745 0000 500 hPa analysis West Pacific
0800 0000 300 hPa analysis West Pacific
0815 0600 tropical cyclone warning
0830 850 hPa prognosis West Pacific VT0000 (H+24)
0845 700 hPa prognosis West Pacific VT0000 (H+24)
0900 500 hPa prognosis West Pacific VT0000 (H+24)
0915 400 hPa prognosis West Pacific VT0000 (H+24)
0930 0600 preliminary surface analysis West Pacific
0945 300 hPa prognosis West Pacific VT0000 (H+24)
1000 850 hPa prognosis Central Pacific VT0000 (H+24)
1015 500 hPa prognosis Central Pacific VT0000 (H+24)
1030 300 hPa prognosis Central Pacific VT0000 (H+24)
1045 850 hPa prognosis West Pacific VT0000 (H+36)
1100 700 hPa prognosis West Pacific VT0000 (H+36)
1115 500 hPa prognosis West Pacific VT0000 (H+36)
1130 FSP FSNH prognosis blend VT0000 (H+36)
1150 FSP MSNH significant wave height prognosis VT0000 (H+36)

1210	FSP FBNH significant weather prognosis VT0000 (H+36)
1230	West Pacific GFAX broadcast schedule part 1
1250	West Pacific GFAX broadcast schedule part 2
1305	1200 satellite imagery West Pacific
1320	300 hPa prognosis West Pacific VT0000 (H+36)
1335	850 hPa prognosis West Pacific VT0000 (H+48)
1350	700 hPa prognosis West Pacific VT0000 (H+48)
1405	500 hPa prognosis West Pacific VT0000 (H+48)
1420	300 hPa prognosis West Pacific VT0000 (H+48)
1435	1200 tropical cyclone warning
1450	1200 satellite imagery Micronesia
1505	NOGAPS surface prognosis West Pacific VT0000 (H+72)
1520	NOGAPS surface prognosis West Pacific VT0000 (H+96)
1535	1400 satellite imagery full disk
1550	1200 preliminary surface analysis West Pacific
1605	NORAPS surface prognosis VT1200 (H+24)
1620	NORAPS surface prognosis VT1200 (H+36)
1635	NORAPS surface prognosis VT1200 (H+48)
1650	1500 satellite imagery West Pacific
1705	ASEH 1200 final surface analysis
1725	1200 500 hPa analysis Central Pacific
1740	1200 300 hPa analysis Central Pacific
1755	NOGAPS surface prognosis West Pacific VT1200 (H+24)
1810	NOGAPS surface prognosis West Pacific VT1200 (H+36)
1825	NOGAPS surface prognosis West Pacific VT1200 (H+48)
1840	1800 satellite imagery West Pacific
1855	FSP MSEH 1200 significant wave height analysis
1915	1200 850 hPa analysis West Pacific
1930	1200 700 hPa analysis West Pacific
1945	1200 500 hPa analysis West Pacific
2000	1200 300 hPa analysis West Pacific
2015	1800 tropical cyclone warning
2030	850 hPa prognosis West Pacific VT1200 (H+24)
2045	700 hPa prognosis West Pacific VT1200 (H+24)
2100	500 hPa prognosis West Pacific VT1200 (H+24)
2115	400 hPa prognosis West Pacific VT1200 (H+24)
2130	1800 preliminary surface analysis West Pacific
2145	300 hPa prognosis West Pacific VT1200 (H+24)
2200	850 hPa prognosis Central Pacific VT1200 (H+24)
2215	500 hPa prognosis Central Pacific VT1200 (H+24)
2230	300 hPa prognosis Central Pacific VT1200 (H+24)
2245	850 hPa prognosis West Pacific VT1200 (H+36)
2300	700 hPa prognosis West Pacific VT1200 (H+36)
2315	500 hPa prognosis West Pacific VT1200 (H+36)
2330	FSP FSNH prognosis blend VT1200 (H+36)
2350	FSP MSNH significant wave height prognosis VT1200 (H+36)

USN Apra Harbour	5262.0	NPN
	10257.0	NPN
	16029.6	NPN
	19862.0	NPN
	23010.0	NPN

→ 120/576

0010	FSP FBNH significant weather prognosis VT1200 (H+36)
0030	• open (Monday, Wednesday, Thursday, Saturday) • sea surface temperature analysis (Tuesday, Friday) • FSP CZ probability (Sunday)
0050	• open (Monday, Tuesday, Thursday, Friday, Saturday) • FSP SLD analysis (Wednesday, Saturday)
0105	850 hPa prognosis Middle East VT1200 (H+24)
0120	700 hPa prognosis Middle East VT1200 (H+24)
0135	500 hPa prognosis Middle East VT1200 (H+24)
0150	300 hPa prognosis Middle East VT1200 (H+24)
0205	NORAPS surface prognosis VT1200 (H+36)
0220	850/500/400/300 hPa prognosis VT1200 (H+24)
0235	0000 tropical cyclone warning
0250	surface prognosis Indian Ocean VT1200 (H+36)
0305	surface prognosis Middle East VT1200 (H+36)
0320	850/500/300 hPa prognosis Indian Ocean VT1200 (H+36)
0335	surface prognosis Indian Ocean VT1200 (H+48)
0350	0300 preliminary surface analysis
0405	surface prognosis Middle East VT1200 (H+48)
0420	0000 satellite imagery South Indian Ocean
0435	850/500/400/300 hPa prognosis Indian Ocean VT1200 (H+48)
0450	0300 satellite imagery West Pacific
0505	FSP ASEH 0000 final surface analysis
0525	DMSP satellite imagery (2.6 nm)
0540	DMSP satellite imagery (5.2 nm)
0555	0000 850/700/500/300 hPa analysis
0610	0000 850 hPa analysis Indian Ocean
0625	0000 500 hPa analysis Indian Ocean
0640	0000 700 hPa analysis Indian Ocean

0655	FSP MSEH 0000 significant wave height analysis
0715	0000 300 hPa analysis Indian Ocean
0735	satellite GFAX panel ASEH/MSNH/FSNH/FBNH 0000
0750	satellite GFAX panel surface prognosis Middle East VT0000 (H+24/36); 850/200 hPa prognosis Indian Ocean VT0000 (H+36)
0805	satellite GFAX panel 850 hPa analysis / prognosis VT0000 (H+36); 200 hPa analysis / prognosis VT0000 (H+36)
0820	satellite GFAX panel DMSP satellite imagery (6.7 nm)
0835	0600 tropical cyclone warning
0850	NORAPS surface prognosis VT0000 (H+24)
0905	surface prognosis Indian Ocean VT0000 (H+24)
0920	surface prognosis Middle East VT0000 (H+24)
0935	0600 preliminary surface analysis Indian Ocean
0950	850 hPa prognosis Indian Ocean VT0000 (H+24)
1005	700 hPa prognosis Indian Ocean VT0000 (H+24)
1020	500 hPa prognosis indian Ocean VT0000 (H+24)
1035	400 hPa prognosis Indian Ocean VT0000 (H+24)
1050	300 hPa prognosis Indian Ocean VT0000 (H+24)
1105	DMSP satellite imagery (2.6 nm)
1120	open
1130	FSP FSNH prognosis blend VT0000 (H+36)
1150	FSP MSNH significant wave height prognosis VT0000 (H+36)
1210	FSP FBNH significant weather prognosis VT0000 (H+36)
1230	Indian Ocean FAX broadcast schedule part 1
1250	Indian Ocean FAX broadcast schedule part 2
1305	850 hPa prognosis Middle East VT0000 (H+24)
1320	700 hPa prognosis Middle East VT0000 (H+24)
1335	500 hPa prognosis Middle East VT0000 (H+24)
1350	300 hPa prognosis Middle East VT0000 (H+24)
1405	NORAPS surface prognosis VT0000 (H+36)
1420	850/500/400/300 hPa prognosis VT0000 (H+24)
1435	1200 tropical cyclone warning
1450	surface prognosis Indian Ocean VT0000 (H+36)
1505	surface prognosis Middle East VT0000 (H+36)
1520	850/500/300 hPa prognosis Indian Ocean VT0000 (H+36)
1535	surface prognosis Indian Ocean VT0000 (H+48)
1550	1500 preliminary surface analysis
1605	surface prognosis Middle East VT0000 (H+48)
1620	1200 satellite imagery South Indian Ocean
1635	850/500/400/300 hPa prognosis Indian Ocean VT0000 (H+48)
1650	1500 satellite imagery West Pacific
1705	FSP ASEH 1200 final surface analysis
1725	DMSP satellite imagery (2.6 nm)
1740	DMSP satellite imagery (5.2 nm)
1755	1200 850/700/500/300 hPa analysis
1810	1200 850 hPa analysis Indian Ocean
1825	1200 500 hPa analysis Indian Ocean
1840	1200 700 hPa analysis Indian Ocean
1855	FSP MSEH 1200 significant wave height analysis
1915	1200 300 hPa analysis Indian Ocean
1935	satellite GFAX panel ASEH/MSNH/FSNH/FBNH 1200
1950	satellite GFAX panel surface prognosis Middle East VT1200 (H+24/36); 850/200 hPa prognosis Indian Ocean VT1200 (H+36)
2005	satellite GFAX panel 850 hPa analysis / prognosis VT1200 (H+36); 200 hPa analysis / prognosis VT1200 (H+36)
2020	satellite GFAX panel DMSP satellite imagery (6.7 nm)
2035	1800 tropical cyclone warning
2050	NORAPS surface prognosis VT1200 (H+24)
2105	surface prognosis Indian Ocean VT1200 (H+24)
2120	surface prognosis Middle East VT1200 (H+24)
2135	1800 preliminary surface analysis Indian Ocean
2150	850 hPa prognosis Indian Ocean VT1200 (H+24)
2205	700 hPa prognosis Indian Ocean VT1200 (H+24)
2220	500 hPa prognosis Indian Ocean VT1200 (H+24)
2235	400 hPa prognosis Indian Ocean VT1200 (H+24)
2250	300 hPa prognosis Indian Ocean VT1200 (H+24)
2305	DMSP satellite imagery (2.6 nm)
2320	open
2330	FSP FSNH prognosis blend VT1200 (H+36)
2350	FSP MSNH significant wave height prognosis VT1200 (H+36)

HAWAII

Honolulu Meteo	9982.5	KVM 70
	11090.0	KVM 70
	16135.0	KVM 70
	23331.5	KVM 70

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0001	satellite infra-red imagery
0017	Pacific surface analysis
0041	tropical surface analysis

0053	weather forecast (H+36)
0107	surface/thickness forecast (H+48)
0127	wind/stream forecast (H+24)
0152	wind/stream forecast (H+48)
0533	test chart/identification/schedule
0547	significant cloud features
0601	satellite infra-red imagery
0617	Pacific surface analysis
0641	tropical surface analysis
0707	surface/thickness forecast (H+48)
1133	test chart/identification/schedule
1147	significant cloud features
1201	satellite infra-red imagery
1217	Pacific surface analysis
1241	tropical surface analysis
1307	surface/thickness forecast (H+48)
1327	ocean winds/significant wave heights forecast (H+48)
1733	test chart/identification/schedule
1747	significant cloud features
1801	satellite infra-red imagery
1817	Pacific surface analysis
1841	tropical surface analysis
1853	sea surface temperature analysis
1907	surface/thickness forecast (H+48)
1927	ocean winds/significant wave heights forecast (H+72)
1942	ocean surface temperatures
2333	test chart/identification/schedule
2347	significant cloud features

USAF Hickam AFB, Honolulu	16182.0	'PHWR'
	17517.0	'PHWR'
	23117.0	'PHWR'

→ 120/576

1410	FAX schedule
1430	850 hPa analysis
1845	AXIO tropical analysis
1845	AXAS height/vorticity analysis, AXAS 1000/500 hPa analysis, AXAS height/T-T_d spread analysis, AXAS omega analysis
1930	FENH surface forecast, FENH 1000/500 hPa forecast, satellite image 1800, work chart VT1200
2015	FSNH surface prognosis, or FXIO 850/700/500/250 hPa tropical prognosis
2120	satellite image 2100, SMAS surface plot
2210	FUNH medium/high level prognosis, FSNH surface prognosis
2245	FANH icing/thunderstorm prognosis, FANH turbulence prognosis
2255	FXAS 700 hPa omega prognosis, FXAS 500 hPa heights/vorticity prognosis, 700 hPa heights/T-T_d spread prognosis, FXAS 1000/500 hPa, FXAS 700 hPa height/T-T_d spread prognosis, 700 hPa omega prognosis

USN Pearl Harbour	4855.0	NPM
	9398.0	NPM
	21839.0	NPM

→ 120/576

0000	• combined FAX schedule (Saturday, Wednesday) • sea surface temperature analysis Hawaii area (Sunday) • sea surface temperature analysis Southwest Pacific (Monday) • storm track (Tuesday) • sea surface temperature analysis South California (Thursday) • sonic layer depth West Pacific (Friday)
0015	• combined FAX schedule (continued) (Saturday, Wednesday) • sea surface temperature analysis (North California) (Sunday, Thursday) • sea surface temperature analysis North California (Monday) • 2129 GMS satellite picture B sector (Tuesday) • sonic layer depth (Friday)
0030	2359 GOES visual satellite picture C sector
0045	significant wave height visual analysis Polar region VT1200
0100	surface prognosis Polar region VT0000 (H+12)
0115	surface prognosis Polar region VT1200 (H+24)
0130	850 hPa prognosis East Pacific VT1200 (H+24)
0145	700 hPa prognosis East Pacific VT1200 (H+24)
0200	400 hPa prognosis East Pacific VT1200 (H+24)
0215	300 hPa prognosis East Pacific VT1200 (H+24)
0230	0000 preliminary surface analysis East Pacific
0245	0000 preliminary surface analysis West Pacific
0300	significant wave prognosis West Pacific VT1200 (H+24)
0315	significant wave prognosis West Pacific VT1200 (H+48)
0330	850 hPa prognosis West Pacific VT1200 (H+24)
0345	0328 GMS satellite picture B sector
0400	700 hPa prognosis West Pacific VT1200 (H+24)
0415	400 hPa prognosis West Pacific VT1200 (H+24)
0430	300 hPa prognosis West Pacific VT1200 (H+24)
0445	significant wave height visual prognosis Polar region VT1200 (H+24)
0500	significant wave height visual prognosis Polar region VT1200 (H+48)
0515	500 hPa sonic layer prognosis Polar region VT1200 (H+24)
0530	500 hPa sonic layer prognosis Polar region VT1200 (H+48)
0545	tropical warning or open period
0600	0000 final surface analysis

0645	0529 GOES infrared satellite picture C sector
0700	0000 500 hPa analysis East Pacific
0715	0000 500 hPa analysis West Pacific
0730	surface prognosis East Pacific VT0000 (H+24)
0745	surface prognosis West Pacific VT0000 (H+24)
0800	surface prognosis East Pacific VT0000 (H+48)
0815	surface prognosis West Pacific VT0000 (H+48)
0830	surface prognosis East Pacific VT1200 (H+36)
0845	0600 preliminary surface analysis East Pacific
0900	0600 preliminary surface analysis West Pacific
0915	0859 GOES infrared satellite picture C sector
0930	surface prognosis West Pacific VT1200 (H+36)
0945	500 hPa prognosis East Pacific VT0000 (H+24)
1000	500 hPa prognosis West Pacific VT0000 (H+24)
1015	surface prognosis blend VT1200 (H+36)
1045	500 hPa prognosis East Pacific VT0000 (H+48)
1100	500 hPa prognosis West Pacific VT0000 (H+48)
1115	0928 GMS satellite picture B sector
1130	0000 significant wave height visual analysis East Pacific
1145	significant wave prognosis East Pacific VT0000 (H+24)
1200	significant wave prognosis East Pacific VT0000 (H+48)
1215	1159 GOES infrared satellite picture C sector
1230	surface prognosis Southern Hemisphere VT1200 (H+36)
1245	0000 significant wave height visual analysis Polar region
1300	surface prognosis Polar region VT1200 (H+12)
1315	surface prognosis Polar region VT0000 (H+24)
1330	850 hPa prognosis East Pacific VT0000 (H+24)
1345	700 hPa prognosis East Pacific VT0000 (H+24)
1400	400 hPa prognosis East Pacific VT0000 (H+24)
1415	300 hPa prognosis East Pacific VT0000 (H+24)
1430	1200 preliminary surface analysis East Pacific
1445	1200 preliminary surface analysis West Pacific
1500	significant wave prognosis West Pacific VT0000 (H+24)
1515	significant wave prognosis West Pacific VT0000 (H+48)
1530	850 hPa prognosis West Pacific VT0000 (H+24)
1545	1528 GMS satellite picture B sector
1600	700 hPa prognosis West Pacific VT0000 (H+24)
1615	400 hPa prognosis West Pacific VT0000 (H+24)
1630	300 hPa prognosis West Pacific VT0000 (H+24)
1645	significant wave height visual prognosis Polar region VT0000 (H+24)
1700	significant wave height visual prognosis Polar region VT0000 (H+48)
1715	surface prognosis East Pacific VT0000 (H+72)
1730	surface prognosis West Pacific VT0000 (H+72)
1745	tropical warning VT0000 or open period
1800	1200 final surface analysis
1845	1759 GOES visual satellite picture C sector
1900	1200 500 hPa analysis East Pacific
1915	1200 500 hPa analysis West Pacific
1930	surface prognosis East Pacific VT1200 (H+24)
1945	surface prognosis West Pacific VT1200 (H+24)
2000	surface prognosis East Pacific VT1200 (H+48)
2015	surface prognosis West Pacific VT1200 (H+48)
2030	surface prognosis East Pacific VT0000 (H+36)
2045	1800 preliminary surface analysis East Pacific
2100	1800 preliminary surface analysis West Pacific
2115	2031 GOES visual satellite picture C sector
2130	surface prognosis West Pacific VT0000 (H+36)
2145	500 hPa prognosis East Pacific VT1200 (H+24)
2200	500 hPa prognosis West Pacific VT1200 (H+24)
2215	surface prognosis blend VT0000 (H+36)
2245	500 hPa prognosis East Pacific VT1200 (H+48)
2300	500 hPa prognosis West Pacific VT1200 (H+48)
2315	1200 significant wave height analysis East Pacific
2330	significant wave height prognosis East Pacific VT1200 (H+24)
2345	significant wave height prognosis East Pacific VT1200 (H+48)

INDIA

Delhi Meteo	4993.5	ATA 55
	7403.0	ATP 57
	14842.0	ATV 65
	18225.0	ATQ 38

→ 120/576

0011	ASAS DEMS 1800
0030	FUAS25 DEMS 250 hPa VT1200 (H+24)
0048	FUAS50 DEMS 500 hPa VT1200 (H+24)

0124	FBAS DEMS VT1800 significant weather prognosis for the period 0300-1500
0142	FUAS50 DEMS 500 hPa contour VT1200 (H+24)
0200	FUAS30 DEMS 300 hPa contour VT1200 (H+24)
0218	FUAS30 DEMS 300 hPa VT1200 (H+24)
0300	FUAS20 DEMS 200 hPa VT1200 (H+24)
0318	FUAS85 DEMS 850 hPa ECMWF VT1200 (H+24)
0336	FUAS20 DEMS 200 hPa ECMWF VT1200 (H+24)
0436	FUAS85 DEMS wind 850 hPa VT1200 (H+24)
0454	SOAS DEMS 7 day mean sea surface temperature
0512	0000 INSAT infrared image
0610	test chart
0620	ASAS DEMS 0000
0710	AUAS85 DEMS 0000 850 hPa
0728	AUAS70 DEMS 0000 700 hPa
0746	AUAS50 DEMS 0000 500 hPa
0804	AUAS30 DEMS 0000 300 hPa
0822	FSAS DEMS VT0000
0840	FBAS DEMS VT0000 significant weather prognosis for the period 0900-2100
0900	AUAS20 DEMS 0000 200 hPa
0918	AUAS DEMS 0000 850 - 500 hPa thickness
1023	FUAS50 DEMS VT0000 500 hPa
1041	FUAS30 DEMS VT0000 300 hPa
1059	FUAS25 DEMS VT0000 250 hPa
1117	FUAS20 DEMS VT0000 200 hPa
1135	FUAS DEMS VT0000 tropopause, maximum wind
1153	AUAS10 DEMS 0000 100 hPa
1211	ASAS DEMS 0600
1230	FUAS25 DEMS 250 hPa VT0000 (H+24)
1248	FUAS50 DEMS 500 hPa VT0000 (H+24)
1324	FBAS DEMS VT0600 significant weather prognosis for the period 1500-0300
1430	FUAS20 DEMS 200 hPa VT0000 (H+24)
1448	FUAS30 DEMS wind 300 hPa VT0000 (H+24)
1810	test chart
1820	ASAS DEMS 1200
1840	AXAS85 DEMS 1200 850 hPa relative vorticity
1910	AUAS85 DEMS 1200 850 hPa
1928	AUAS70 DEMS 1200 700 hPa
1946	AUAS50 DEMS 1200 500 hPa
2004	AUAS30 DEMS 1200 300 hPa
2022	FSAS DEMS VT1200
2040	FBAS DEMS VT1200 significant weather prognosis for the period 2100-0900
2100	AUAS20 DEMS 1200 200 hPa
2118	AUAS DEMS 0000 850 - 500 hPa thickness
2136	AXAS50 DEMS 1200 500 hPa relative vorticity
2223	AUAS50 DEMS 1200 500 hPa
2241	AUAS30 DEMS 1200 300 hPa
2259	AUAS25 DEMS 1200 250 hPa
2317	AUAS20 DEMS 1200 200 hPa
2335	FUAS DEMS VT1200 tropopause, maximum wind
2353	AUAS DEMS 1200

ITALY

Rome Meteo	4777.5	IMB 51
	8146.6	IMB 55
	13597.4	IMB 56

→ 120/576

0055	FUEU LIIB FL 390 - 300
0117	FUEU LIIB FL 340
0129	FUEU LIIB FL 240 - 180
0151	FUEU LIIB FL 100 - 50
0248	FBEU EDZW VT1800 EUR significant weather
0340	TEMPs of Italy
0410	ASIY LIIB 0300
0430	AXEU LIIB freezing level chart AUEU LIIB 850 hPa
0445	ASEU LIIB 0000
0500	APEU LIIB 3-hour pressure changes AUEU LIIB 500 hPa
0515	AUEU LIIB 700 hPa AUEU LIIB 300 hPa
0530	AUEU LIIB 200 hPa AUEU LIIB tropopause and maximum wind
0555	ASEU LIIB 0000
0610	FUXX LIIB 300/200 hPa AUEU LIIB tropopause, maximum wind and significant weather
0620	precipitation chart
0655	ASEU LIIB 0000
0710	ASIY LIIB 0600
0730	FUEU LIIB 700 hPa FUEU LIIB 500 hPa
0745	FUEU LIIB 300 hPa FUEU LIIB 200 hPa
0800	"cartello meteo" (che precisione *affascinante*, egregi signori!)
0824	FBXX EGRR VT1800 NAT significant weather
0835	satellite picture
0845	FUEU LIIB 500 hPa (H+72)
0900	FUEU LIIB 500 hPa (H+96)
0915	FUEU LIIB 500 hPa (H+120)
0930	FUEU LIIB 500 hPa (H+144)
1000	FBXX LIIB VT1800 significant weather
1015	FUXX KWBC 500 hPa (H+48)
1030	FSEU LIIB (H+24) APEU LIIB 3-hour pressure changes
1045	ASEU LIIB 0600
1100	FUXX LIIB 300/200 hPa FUXX LIIB tropopause, maximum wind
1110	temperature / precipitation chart
1140	FSXX LIIB state of Mediterranean Sea
1255	FUEU LIIB FL 390 - 300
1317	FUEU LIIB FL 340
1329	FUEU LIIB FL 240 - 180
1351	FUEU LIIB FL 100 - 50
1448	FBEU EDZW VT0000 EUR significant weather
1530	TEMPs of Italy
1610	ASIY LIIB 1500
1630	AXEU LIIB freezing level chart AUEU LIIB 850 hPa
1645	ASEU LIIB 0000
1700	APEU LIIB 3-hour pressure changes AUEU LIIB 500 hPa

1715 AUEU LIIB 700 hPa
AUEU LIIB 300 hPa
1730 AUEU LIIB 200 hPa
AUEU LIIB
tropopause and maximum wind
1745 satellite picture
1810 FUXX LIIB 300/200 hPa
AUEU LIIB tropopause, maximum wind and significant weather
1900 ASIY LIIB 1800
1920 FUEU LIIB 700 hPa
FUEU LIIB 500 hPa
1935 FUEU LIIB 300 hPa
FUEU LIIB 200 hPa
2030 satellite picture
2048 FBEU EDZW VT0600
EUR significant weather
2215 FUXX KWBC 500 hPa (H+48)
2230 FSXX LIIB state of Mediterranean Sea
2240 FSEU LIIB (H+24)
APEU LIIB 3-hour pressure changes
2255 ASEU LIIB 1800
2310 FUXX LIIB 300/200 hPa
FUXX LIIB tropopause, maximum wind and significant weather
2320 temperature chart

USN Catania	9050.0	NSY
	17040.0	NSY

(schedule see under USN Rota, Spain)

JAPAN

Tokyo Meteo	3365.0	JMJ
	5405.0	JMJ 2
	9438.0	JMJ 3
	14692.5	JMJ 4
	18441.2	JMJ 5

→ 120/576
0013 FUXX RJTD 1200
FL390 wind, temperature (H+24)
0032 FUXX RJTD 1200 FL300 wind, temperature (H+24)
0051 FXAS502 RJTD 1200
500 hPa height, vorticity (H+24)
0110 FXAS782 RJTD 1200
850 hPa temperature, wind /
700 hPa vertical P-velocity (H+24)
0129 FSAS02 RJTD 1200 surface pressure, precipitation (H+24)
0148 MANAM manual amendments
(issued only when necessary)
0200 test chart
0223 FBAS RJTD 1200 retransmission of 2052
0735 AUPA25 RJTD 0000
250 hPa height, temperature, wind
0754 AUPA20 RJTD 0000
200 hPa height, temperature, wind
0814 FUPA502 RJTD 0000 500 hPa height, temperature, wind (H+24)
0833 FUPA252 RJTD 0000 250 hPa height, temperature, wind (H+24)
0852 FBAS RJTD 0000
significant weather (H+24)
0911 FBPN RJTD 0000
significant weather (H+24)
1000 FUXX RJTD 0000
FL340 wind, temperature (H+24)
1019 FUXX RJTD 0000
FL390 wind, temperature (H+24)
1038 FUXX RJTD 0000
FL300 wind, temperature (H+24)
1057 FUXX RJTD 0000
FL340 wind, temperature (H+24)
1116 FUXX RJTD 0000
FL390 wind, temperature (H+24)
1135 FUXX RJTD 0000
FL300 wind, temperature (H+24)
1154 FUXX RJTD 0000
FL340 wind, temperature (H+24)
1214 FUXX RJTD 0000
FL390 wind, temperature (H+24)
1232 FUXX RJTD 0000
FL300 wind, temperature (H+24)
1251 FXAS502 RJTD 0000
500 hPa height, vorticity (H+24)
1310 FXAS782 RJTD 0000
850 hPa temperature, wind /
700 hPa vertical P-velocity (H+24)
1329 FSAS02 RJTD 0000 surface pressure, precipitation (H+24)
1935 AUPA25 RJTD 1200
250 hPa height, temperature, wind
1954 AUPA20 RJTD 1200
200 hPa height, temperature, wind
2014 FUPA502 RJTD 1200 500 hPa height, temperature, wind (H+24)
2033 FUPA252 RJTD 1200 250 hPa height, temperature, wind (H+24)
2052 FBAS RJTD 1200
significant weather (H+24)
2111 FBPN RJTD 1200
significant weather (H+24)
2200 FUXX RJTD 1200
FL340 wind, temperature (H+24)
2219 FUXX RJTD 1200
FL390 wind, temperature (H+24)
2238 FUXX RJTD 1200
FL300 wind, temperature (H+24)
2257 FUXX RJTD 1200
FL340 wind, temperature (H+24)
2316 FUXX RJTD 1200
FL390 wind, temperature (H+24)
2335 FUXX RJTD 1200
FL300 wind, temperature (H+24)
2354 FUXX RJTD 1200
FL340 wind, temperature (H+24)

Tokyo Meteo	3622.5	JMH
	7305.0	JMH 2
	9970.0	JMH 3
	13597.0	JMH 4
	18220.0	JMH 5
	23522.9	JMH 6

→ 120/576
0002 AUAS85 RJTD 1200
retransmission of 1659

0021	FEAS509 RJTD 1200 500 hPa height, vorticity (H+96)
	FEAS09 RJTD 1200 surface pressure, 850 hPa temperature (H+96)
0033	FEAS512 RJTD 1200 500 hPa height, vorticity (H+120)
	FEAS12 RJTD 1200 surface pressure, 850 hPa temperature (H+120)
0045	FEAS514 RJTD 1200 500 hPa height, vorticity (H+144)
	FEAS14 RJTD 1200 surface pressure, 850 hPa temperature (H+144)
0103	test chart
0110	0000 meteorological satellite picture (GMS)
0130	FEAS516 RJTD 1200 500 hPa height, vorticity (H+168)
	FEAS16 RJTD 1200 surface pressure, 850 hPa temperature (H+168)
0142	FEAS519 RJTD 1200 500 hPa height, vorticity (H+192)
	FEAS19 RJTD 1200 surface pressure, 850 hPa temperature (H+192)
0154	AZXN50 RJTD 1200 500 hPa 5-day mean height tendency
0209	radio prediction (20. and 21. of each month)
0220	FOPN1 RJTD retransmission of 1120
	COPN RJTD retransmission of 1146
	SOPN RJTD retransmission of 1146
	SOPN RJTD retransmission of 1146
	COPA RJTD retransmission of 1146
0239	forecast valid for 1 or 3 months (10., 20. and last day of each month)
0253	MANAM manual amendments
0259	STPN RJTD retransmission of 1109
0300	STPN retransmission of 1110 (Tuesday, Friday)
0310	WTFE04 RJTD 0000 typhoon forecast (H+12, H+24) (in case of typhoon)
0320	ASAS RJTD 0000 with plotted data
0349	AUAS70 RJTD 0000 700 hPa height, temperature, dew point depression
0410	ASAS RJTD 0000 retransmission of 0320
0430	WTFE02 RJTD 0000 typhoon forecast (H+12, H+24) (in case of typhoon)
0440	AUAS50 RJTD 0000 500 hPa height with plotted data
0459	AUAS85 RJTD 0000 850 hPa height, temperature, dew point depression
0518	AUFE50 RJTD 0000 500 hPa height, vorticity
	AXFE78 RJTD 0000 850 hPa temperature / 700 hPa vertical P-velocity
0529	FUFE502 RJTD 0000 500 hPa height, vorticity (H+24)
	FSFE02 RJTD 0000 surface pressure, precipitation (H+24)
0540	FXFE572 RJTD 0000 500 hPa temperature / 700 hPa dew point depression (H+24)
	FXFE782 RJTD 0000 850 hPa temperature, wind / 700 hPa vertical P-velocity (H+24)
0551	FUFE503 RJTD 0000 500 hPa height, vorticity (H+36)
	FSFE03 RJTD 0000 surface pressure, precipitation (H+36)
0602	AWPN RJTD 0000 with plotted data
0621	AWJP RJTD 0000 with plotted data
0640	FSAS RJTD VT0000 (H+24)
0659	FXFE573 RJTD 0000 500 hPa temperature / 700 hPa dew point depression (H+36)
	FXFE783 RJTD 0000 850 hPa temperature, wind / 700 hPa vertical P-velocity (H+36)
0710	0600 meteorological satellite picture (GMS)
0729	FWPN RJTD 0000 wave prognosis (H+24)
0749	AUAS30 RJTD 0000 300 hPa height, temperature, wind
0810	FSAS04 RJTD 0000 surface pressure, precipitation (H+48)
0829	FXAS504 RJTD 0000 500 hPa height, vorticity (H+48)
0849	FWJP RJTD 0000 wave prognosis (H+24)
0910	WTFE04 RJTD 0600 typhoon forecast (H+12, H+24) (in case of typhoon)
0920	ASAS RJTD 0600 with plotted data
0939	FEFE19 RJTD forecast valid for 1 week
0949	FSAS07 RJTD 0000 surface pressure, precipitation (H+72)
1010	ASAS RJTD 0600 retransmission of 0920
1030	WTFE02 RJTD 0900 typhoon forecast (H+12, H+24) (in case of typhoon)
1040	FXAS507 RJTD 0000 500 hPa height, vorticity (H+72)
1109	STPN RJTD sea ice condition (seasonal) (Tuesday, Friday)
1120	FOPN1 RJTD 10-day mean sea surface temperature, current (9., 19. and 29. of each month)
1135	FOPN2 RJTD 10-day mean sea surface temperature anomaly (9., 19. and 29. of each month)
1146	COPN RJTD 10-day mean sea surface temperature (2., 12. and 22. of each month)
	SOPQ RJTD sea surface current (6., 10., 16., 20., 26. and 30. of each month)
	SOPN RJTD subsurface temperature at the depth of 100 m (7., 17. and 27. of each month)
	COPA RJTD 10-day mean sea surface temperature anomaly (4., 14. and 24. of each month)
1210	CUXN50 RJTD 500 hPa 5-day mean height tendency (transmitted about 6 times a month, the date of which will be informed at 0253 UTC)
1229	CUXN10 RJTD 100 hPa 5-day mean height anomaly (seasonal) (transmitted about 6 times a month, the date of which will be informed at 0253 UTC)
1303	test chart
1310	1200 meteorological satellite picture (GMS)
1330	CSXN1 RJTD monthly mean pressure anomaly (4. of each month)

1349	CUXN51 RJTD 500 hPa monthly mean height anomaly (4. of each month)
1510	WTFE04 RJTD 1200 typhoon forecast (H+12, H+24) (in case of typhoon)
1520	ASAS RJTD 1200 with plotted data
1549	AUAS70 RJTD 1200 700 hPa height, temperature, dew point depression
1610	ASAS RJTD 1200 retransmission of 1520
1630	WTFE02 RJTD 1500 typhoon forecast (H+12, H+24) (in case of typhoon)
1640	AUAS50 RJTD 1200 500 hPa height with plotted data
1659	AUAS85 RJTD 1200 850 hPa height, temperature, dew point depression
1720	AUFE50 RJTD 1200 500 hPa height, vorticity AXFE78 RJTD 1200 850 hPa temperature / 700 hPa vertical P-velocity
1731	FUFE502 RJTD 1200 500 hPa height, vorticity (H+24) FSFE02 RJTD 1200 surface pressure, precipitation (H+24)
1742	FXFE572 RJTD 1200 500 hPa temperature, wind / 700 hPa dew point depression (H+24) FXFE782 RJTD 850 hPa temperature, wind / 700 hPa vertical P-velocity (H+24)
1753	FUFE503 RJTD 1200 500 hPa height, vorticity (H+36) FSFE03 RJTD 1200 surface pressure, precipitation (H+36)
1804	FXFE573 RJTD 1200 500 hPa temperature / 700 hPa dew point depression (H+36) FXFE783 RJTD 850 hPa temperature, wind / 700 hPa vertical P-velocity (H+36)
1830	AUAS30 RJTD 1200 300 hPa height, temperature, wind
1910	1800 meteorological satellite picture (GMS)
1930	AUXN50 RJTD 1200 500 hPa height, temperature
1949	FSAS04 RJTD 1200 surface pressure, precipitation (H+48)
2010	FXAS504 RJTD 1200 500 hPa height, vorticity (H+48)
2030	FXAS784 RJTD 850 hPa temperature, wind / 700 hPa vertical P-velocity (H+48)
2049	FSAS07 RJTD 1200 surface pressure, precipitation (H+72)
2110	WTFE04 RJTD 1800 typhoon forecast (H+12, H+24) (in case of typhoon)
2120	ASAS RJTD 1800 with plotted data
2149	FXAS507 RJTD 1200 500 hPa height, vorticity (H+72)
2210	FXAS787 RJTD 850 hPa temperature, wind / 700 hPa vertical P-velocity (H+72)
2230	WTFE02 RJTD 2100 typhoon forecast (H+12, H+24) (in case of typhoon)
2240	FUXT852 RJTD stream lines prognosis VT1200 (H+24) FUXT854 RJTD stream lines prognosis VT1200 (H+48)
2307	AUFE50 RJTD 1200 retransmission of 1720 AXFE78 RJTD 1200 retransmission of 1720
2318	FUFE502 RJTD 1200 retransmission of 1731 FSFE02 RJTD 1200 retransmission of 1731
2330	ASAS RJTD 1800 retransmission of 2120
2349	FXFE572 RJTD 1200 retransmission of 1742 FXFE782 RJTD 1200 retransmission of 1742

USN Yokosuka	4963.0	NDT
	12777.0	NDT
	22322.5	NDT

(schedule see under USN Apra Harbour, Guam)

USN Yokosuka	4967.0	NDT
	22326.5	NDT

(schedule see under USN Apra Harbour, Guam)

KENYA

Nairobi Meteo	7464.5	5YE
	9045.0	5YE
	12317.0	5YE
	15527.0	5YE
	16317.0	5YE
	17367.0	5YE
	22869.0	5YE

→ 120/576

0010	FBKN HKNC 1200 FL250 significant weather
0350	test chart
0400	FBKN HKNC 1800 FL250 significant weather (segment)
0540	FBKN HKNC 1800 FL 100-250 significant weather
0600	FBKN HKNC 1800 FL250 significant weather
0830	test chart
0844	FUKN HKNC 0000 500 hPa (H+24)
0903	FUKN HKNC 0000 300 hPa (H+24)
0922	FUKN HKNC 0000 250 hPa (H+24)
0941	FUKN HKNC 0000 200 hPa (H+24)
1000	FBKN HKNC 0000 FL250 significant weather (segment)
1017	FBKN HKNC 0000 FL 100-250 significant weather
1037	FBKN HKNC 0000 FL250 significant weather
1057	ASKN HKNC 0600
1112	AUKN HKNC 0600
1127	ASKN HKNC 0600 24-hour change of pressure
1142	FSKN HKNC 0600 (H+24)
1210	AUKN HKNC 0600 700 hPa

1229	AUKN HKNC 0600 500 hPa
1248	AUKN HKNC 0600 300 hPa
1307	AUKN HKNC 0600 250 hPa
1326	AUKN HKNC 0600 200 hPa
1345	ASKN HKNC 0600 Indian Ocean
1430	AUKN HKNC 1200 low level convergence zones
1455	ASKN HKNC 1200 24-hour change of pressure
1600	FBKN HKNC 0600 FL250 significant weather (segment)
1638	ASKN HKNC 1200
1653	AUKN HKNC 1200 850 hPa
1708	ASKN HKNC 1200 Indian Ocean
1722	FBKN HKNC 0600 FL 100-250 significant weather
1742	FBKN HKNC 0600 FL250 significant weather
1802	FSKN HKNC 1200 (H+24)
1820	AUKN HKNC 1200 700 hPa
1839	AUKN HKNC 1200 500 hPa
1858	AUKN HKNC 1200 300 hPa
1917	AUKN HKNC 1200 250 hPa
1936	AUKN HKNC 1200 200 hPa
2055	FUKN HKNC 1200 500 hPa (H+24)
2114	FUKN HKNC 1200 300 hPa (H+24)
2133	FUKN HKNC 1200 250 hPa (H+24)
2152	FUKN HKNC 1200 200 hPa (H+24)
2210	FBKN HKNC 1200 FL250 significant weather (segment)
2350	FBKN HKNC 1200 FL 100-250 significant weather

KOREA (REPUBLIC OF)

Soul Meteo	5857.5	HLL 8

→ 120/576

0000	SMFE RKSL 2100
0100	2330 meteorological satellite picture
0115	ANAS RKSL 0000
0300	SMAS RKSL 0000
0320	monthly forecast (on first and last day of each month)
0350	manual amendments
0420	weekly forecast (Tuesday, Friday)
0540	AUAS RKSL 0000 850 hPa
0600	SMFE RKSL 0300
0640	AUAS RKSL 0000 500 hPa
0715	ANAS RKSL 0600
0730	FSAS RKSL VT0000
0900	SMFE RKSL 0600
1200	SMFE RKSL 0900
1315	ANAS RKSL 1200
1500	SMAS RKSL 1200
1840	AUAS RKSL 1200 500 hPa
1915	ANAS RKSL 1800
1932	FSAS RKSL VT1200
2100	SMFE RKSL 1800

NEW ZEALAND

Auckland Meteo	5807.0	ZKLF
	9459.0	ZKLF
	13550.0	ZKLF
	16340.1	ZKLF

→ 120/576

0000	significant weather prognosis VT1200
0015	sea swell forecast New Zealand VT0000/1800
0030	250 hPa prognosis East Pacific VT1200 (H+24)
0045	700 hPa prognosis VT1800 (H+30)
0100	250 hPa analysis 1800
0115	250 hPa prognosis VT1200 (H+24)
0300	0000 MSL analysis
0315	significant weather prognosis North Pacific VT1200
0330	0000 MSL analysis Southwest Pacific
0400	significant weather prognosis Asia VT1200
0430	MSL marine weather prognosis Southwest Pacific VT1200
0445	FAX schedule
0545	sea swell forecast New Zealand VT0600/0000
0600	significant weather prognosis VT1800
0615	500 hPa analysis 0000
0700	250 hPa analysis 0000
0730	250 hPa prognosis VT1800 (H+30)
0800	500 hPa prognosis VT0000 (H+24)
0815	700 hPa prognosis VT0000 (H+24)
0830	significant weather prognosis North Pacific VT1800
0945	MSL analysis 0600
1000	250 hPa prognosis North Pacific VT0000 (H+24)
1015	250 hPa prognosis North Pacific VT0600 (H+30)
1030	ML WMC MSL analysis South Pacific 0000
1045	500 hPa prognosis VT0600 (H+30)
1100	700 hPa prognosis VT0600 (H+30)
1115	significant weather prognosis Asia VT1800
1130	MSL maritime weather prognosis Southwest Pacific VT1800
1200	significant weather prognosis VT0000
1300	250 hPa analysis 0600
1315	250 hPa prognosis VT0000 (H+24)
1500	MSL analysis 1200
1515	significant weather prognosis North Pacific VT0000
1530	MSL analysis Southwest Pacific 1200
1600	MSL prognosis Southwest Pacific VT1200 (H+24)
1615	significant weather prognosis Asia VT0000
1630	MSL maritime weather prognosis Southwest Pacific VT0000
1645	FAX schedule
1745	sea swell forecast New Zealand VT1800/1200
1830	500 hPa analysis 1200
1845	significant weather prognosis VT0600
1900	250 hPa analysis 1200

1915 250 hPa prognosis VT0600 (H+30)
2000 500 hPa prognosis VT1200 (H+24)
2015 700 hPa prognosis VT1200 (H+24)
2030 significant weather prognosis North Pacific VT0600
2145 MSL analysis 1800
2200 significant weather prognosis Asia VT0600
2215 250 hPa prognosis North Pacific VT1200 (H+24)
2230 250 hPa prognosis North Pacific VT1800 (H+30)
2245 ML WMC MSL South Pacific analysis 1200
2300 significant weather prognosis East Pacific VT1200
2315 500 hPa prognosis VT1800 (H+30)
2330 MSL maritime weather prognosis Southwest Pacific VT0600
2345 MSL prognosis Southwest Pacific VT1200 (H+42)

PHILIPPINES

USN Subic Bay	10964.0	NPO
	15923.0	NPO

(schedule see under USN Apra Harbour, Guam)

REUNION

Saint Denis Meteo	8176.0	FZR 81
	16335.0	FZS 63

→ 120/576
0745 XXRE FMEE test chart
0750 FBRE FMEE VT0900
0815 FURE FMEE (H+24)
1100 XXRE FMEE test chart
1110 AORE FMEE
1135 ASRE FMEE 0600

SAUDI ARABIA

Jeddah Meteo	3560.0	HZN
	5452.0	HZN
	10296.0	HZN

→ 120/576
0350 test chart
0400 ASXX OEJD 0000 with plotted data
0520 test chart
0530 AUXX OEJD 0000 850 hPa
0550 AUXX OEJD 0000 700 hPa
0610 AUXX OEJD 0000 500 hPa
0630 AUXX OEJD 0000 300 hPa
0650 AUXX OEJD 0000 250 hPa
0710 AUXX OEJD 0000 200 hPa
1000 ASXX OEJD 0600 with plotted data
1128 test chart
1138 FUSD OEJD VT0000 700hPa (H+18)
1150 FUSD OEJD VT0000 500hPa (H+18)
1202 FUSD OEJD VT0000 300hPa (H+18)
1214 FUSD OEJD VT0000 250hPa (H+18)
1226 FUSD OEJD VT0000 200hPa (H+18)
1238 FUSD OEJD VT0000 significant weather (H+18)
1250 FUXX OEJD VT0000 tropopause, maximum wind
1302 FUXX OEJD VT0000 300 hPa (H+18)
1314 FUXX OEJD VT0000 250 hPa (H+18)
1326 FUXX OEJD VT0000 200 hPa (H+18)
1338 FUXX OEJD VT0000 significant weather (H+18)
1350 FUXX OEJD VT0000 tropopause, maximum wind
1402 FUXX OEJD VT0000 300 hPa (H+18)
1414 FUXX OEJD VT0000 250 hPa (H+18)
1426 FUXX OEJD VT0000 200 hPa (H+18)
1520 test chart
1530 ASXX OEJD 1200 with plotted data
1650 test chart
1700 AUXX OEJD 1200 850 hPa
1720 AUXX OEJD 1200 700 hPa
1740 AUXX OEJD 1200 500 hPa
1800 AUXX OEJD 1200 300 hPa
1820 AUXX OEJD 1200 250 hPa
1840 AUXX OEJD 1200 200 hPa
2030 FUXX OEJD VT1200 significant weather (H+18)
2042 FUXX OEJD VT1200 tropopause, maximum wind
2054 FUXX OEJD VT1200 300 hPa (H+18)
2106 FUXX OEJD VT1200 250 hPa (H+18)
2108 FUXX OEJD VT1200 200 hPa (H+18)
2120 FUXX OEJD VT1200 significant weather (H+18)
2132 FUXX OEJD VT1200 tropopause, maximum wind
2144 FUXX OEJD VT1200 300 hPa (H+18)
2156 FUXX OEJD VT1200 250 hPa (H+18)
2208 FUXX OEJD VT1200 200 hPa (H+18)
2220 ASXX OEJD 1800 with plotted data
2246 test chart
2256 FUSD OEJD VT1200 significant weather (H+18)
2306 FUSD OEJD VT1200 700hPa (H+18)
2320 FUSD OEJD VT1200 500hPa (H+18)
2332 FUSD OEJD VT1200 300hPa (H+18)
2344 FUSD OEJD VT1200 250hPa (H+18)
2356 FUSD OEJD VT1200 200hPa (H+18)

SENEGAL

Dakar Meteo	13669.5	6VU 73
	19751.5	6VU 79

→ 60/576
0100 FBAO GOOY VT1200
→ 120/576
0340 test chart
0400 ASAO GOOY 0000
0445 AUAO GOOY 0000 850 hPa
0500 AUAO GOOY 0000 700 hPa

0515 AUAO GOOY 0000 300 hPa
0530 AUAO GOOY 0000 250 hPa
→ 60/576
0545 FBAO GOOY VT1800
→ 120/576
0615 AUAO GOOY 0000 200 hPa
0630 AUAO GOOY 0000 500 hPa
→ 60/576
0700 FBAO GOOY VT1800
→ 120/576
0740 test chart
0820 FUAU GOOY VT0000 FL180
0840 FUAU GOOY VT0000 FL300
0900 FUAU GOOY VT0000 FL340
0920 FUAU GOOY VT0000 FL390
0940 test chart
1000 ASAO GOOY 0600
1040 test chart
→ 60/576
1145 FBAO GOOY VT0000
→ 120/576
1240 test chart
→ 60/576
1300 FBAO GOOY VT0000
→ 120/576
1540 test chart
1600 ASAO GOOY 1200
1645 AUAO GOOY 1200 850 hPa
1700 AUAO GOOY 1200 700 hPa
1715 AUAO GOOY 1200 300 hPa
1730 AUAO GOOY 1200 250 hPa
→ 60/576
1745 FBAO GOOY VT0600
→ 120/576
1815 AUAO GOOY 1200 200 hPa
1830 AUAO GOOY 1200 500 hPa
→ 60/576
1900 FBAO GOOY VT0600
→ 120/576
1940 test chart
2020 FUAU GOOY VT1200 FL180
2040 FUAU GOOY VT1200 FL300
2100 FUAU GOOY VT1200 FL340
2120 FUAU GOOY VT1200 FL390
2140 test chart
2200 ASAO GOOY 1800
2240 test chart
→ 60/576
2345 FBAO GOOY VT1200

SOUTH AFRICA (REPUBLIC OF)

Pretoria Meteo	4014.0	ZRO 5
	7508.0	ZRO 2
	13538.0	ZRO 3
	18238.0	ZRO 4

→ 120/576
0445 XXZA FAPR facsimile schedule
0515 ASZA FAPR 0300 seaward analysis
of the area only, depending on available
information; bi-level chart: analysis
over continent for the 850 hPa level,
contours at intervals of 10 gpm
0600 AUZA FAPR 0000-0400
700/500/300/200 hPa
0630 FU.. FAPR ECMWF
upper-air prognoses VT1200
0710 AOZA FAPR 10-day mean surface
temperature (Eastern coastal waters
Monday, Wednesday, Friday;
Western coastal waters
Tuesday, Thursday, Saturday)
0730 FS.. FAPR ECMWF surface prognoses
VT1200
0830 AHAP FAPR 0000 1000/300 hPa
0900 AUXS FAPR 0000
500 hPa computer analysis
0920 FS.. FAPR ECMWF surface prognoses
VT1200
1000 ASZA FAPR 0600
1415 AUZA FAPR 1200 700/500/300/200 hPa
1445 ASZA FAPR 1200
1800 AUXS FAPR 1200
500 hPa computer analysis
1820 AS.. FAPR 1200
ECMWF surface analysis

SPAIN

Madrid Meteo	3650.0	
	6918.5	ECA 7
	10250.0	

→ 120/576
0105 FUEU EDZW 300 hPa VT1200 (H+24)
0139 FUEU EDZW 500 hPa VT1200 (H+24)
0151 FUEU EDZW 700 hPa VT1200 (H+24)
FUEU EDZW 850 hPa VT1200 (H+24)
0400 ASSP LEMM 0000
AUSP LEMM 0000 300 hPa
0440 FUSP LEMM 850/700/500/300 hPa
VT0000 (H+12)
limited area forecast model (INM)
FBSP LEMM significant weather VT1200
0445 FUSA LEMM 300 hPa VT1200 (H+24)
FBSA LEMM significant weather VT1200
FUSA LEMM 200 hPa VT1200 (H+24)
FUSA LEMM tropopause 250 hPa
VT1200
0530 FBEU EDZW significant weather VT1200
0615 AUSP LEMM 0000 700 hPa
0630 AUSP LEMM 0000 850 hPa
0645 FSSP LEMM VT0000 (H+24)
0700 FUSP LEMM 1000/850/500 hPa
VT1200 (H+24, H+48, H+72) ECMWF
0815 FUEU EDZW 300 hPa VT1800
FUEU EDZW 500 hPa VT1800
FUEU EDZW 700 hPa VT1800
FUEU EDZW 850 hPa VT1800
0900 FUSP LEMM 850/700/500/300 hPa
VT1800
limited area forecast model (INM)
FBSP LEMM significant weather VT1800
1015 FUSA LEMM 300 hPa VT1800 (H+18)
FBSA LEMM significant weather VT1800
FUSA LEMM 200 hPa VT1800 (H+18)
FUSA LEMM tropopause 250 hPa
VT1800

1105 AWSP LEMM 0600 wave analysis
1127 FSSP LEMM VT1200 (H+24)
1215 FWSP LEMM wave prognosis VT0600 (H+24)
1304 FUEU EDZW 300 hPa VT0000 (H+24)
1338 FUEU EDZW 500 hPa VT0000 (H+24)
1351 FUEU EDZW 700 hPa VT0000 (H+24)
FUEU EDZW 850 hPa VT0000 (H+24)
1545 ASSP LEMM 1200
AUSP LEMM 1200 300 hPa
1610 FUSA LEMM 300 hPa VT0000 (H+24)
FBSA LEMM significant weather VT0000
FUSA LEMM 200 hPa VT0000 (H+24)
FUSA LEMM tropopause 250 hPa VT0000
1650 FUSP LEMM 850/700/500/300 hPa VT1200 (H+12) limited area forecast model (INM)
FBSP LEMM significant weather VT0000
1655 SOSP LEMM 1200 sea surface temperature
1720 AWSP LEMM 1200 wave analysis (Monday - Saturday)
1745 AUSP LEMM 1200 500 hPa
1805 AUSP LEMM 1200 700 hPa
1835 AUSP LEMM 1200 850 hPa
1904 FUEU EDZW 300 hPa VT0600
1938 FUEU EDZW 500 hPa VT0600
1951 FUEU EDZW 700 hPa VT0600
FUEU EDZW 850 hPa VT0600
2200 FUSA LEMM 300 hPa VT0600 (H+18)
FBSA LEMM significant weather VT0600
FUSA LEMM 200 hPa VT0600 (H+18)
FUSA LEMM tropopause 250 hPa VT0600
2245 FUSP LEMM 850/700/500/300 hPa VT1200 (H+18) limited area forecast model (INM)
FBSP LEMM significant weather VT0600

USN Rota	4704.0	AOK
	5785.0	AOK
	9382.5	AOK
	9875.0	AOK
	12315.0	AOK
	17585.0	AOK

→ 120/576
0017 CP NOGAPS thickness prognosis VT1200 (H+24)
0031 MFAX transmission schedule
0045 MFAX transmission schedule (continued)
0113 CP NOGAPS Middle East 1200 surface pressure/wind analysis
0127 CP NOGAPS Middle East surface pressure/wind prognosis VT0000 (H+36)
0141 CP NOGAPS Middle East 1200 500 hPa height/temperature/wind analysis
0155 CP NOGAPS Middle East 500 hPa height/temperature/wind prognosis VT0000 (H+36)
0209 CP NOGAPS Middle East 250 hPa height/temperature/wind prognosis VT0000 (H+36)
0223 CP NOGAPS West Mediterranean 0000 sea surface temperature analysis
0237 CP NOGAPS East Mediterranean 1200 sea surface temperature analysis
0251 CP NOGAPS 0000 surface pressure preliminary analysis (4 hPa winter / 2 hPa summer)
0321 FSP East Mediterranean satellite picture
0335 FSP West Mediterranean satellite picture
0349 FSP in house prepared product
FSME LERT retransmission VT0000
0403 CP NORAPS 0000 surface pressure analysis
0417 CP NORAPS 0000 500 hPa analysis
0431 CP NORAPS surface pressure prognosis VT1200 (H+36)
0445 CP NORAPS 500 hPa prognosis VT1200 (H+36)
0459 CP NORAPS surface pressure prognosis VT0000 (H+48)
0513 FSP in house prepared product 1200 surface pressure analysis (hand drawn)
0527 CP NOGAPS 0000 500 hPa height/temperature/wind analysis
0541 CP NOGAPS 0000 850 hPa height/temperature/wind analysis
0555 FSP in house prepared product test chart
0609 CP NOGAPS 0000 250 hPa height/isotach/wind analysis
0623 CP NOGAPS 0000 400 hPa height/temperature/wind analysis
0637 CP NOGAPS 0000 925 hPa height/temperature/wind analysis
0651 CP NOGAPS 0000 700 hPa height/temperature/wind analysis
0705 CP NOGAPS surface pressure/wind prognosis VT0000 (H+24)
0719 CP NOGAPS 500 hPa height/temperature/wind prognosis VT0000 (H+24)
0733 CP NOGAPS 850 hPa height/temperature/wind prognosis VT0000 (H+24)
0747 CP NOGAPS 250 hPa height/isotach/wind prognosis VT0000 (H+24)
0801 CP NOGAPS 400 hPa height/temperature/wind prognosis VT0000 (H+24)
0815 CP NOGAPS 925 hPa height/temperature/wind prognosis VT0000 (H+24)
0829 CP NOGAPS 700 hPa height/temperature/wind prognosis VT0000 (H+24)
0843 CP NOGAPS 0000 500 hPa SD/SR longwave analysis
0857 CP NOGAPS surface pressure/wind prognosis VT1200 (H+36)
0911 CP NOGAPS 850 hPa height/temperature/wind prognosis VT1200 (H+36)
0925 CP NOGAPS 500 hPa height/temperature/wind prognosis VT1200 (H+36)
0939 CP NOGAPS 700 hPa height/temperature/wind prognosis VT1200 (H+36)
0953 CP NOGAPS 250 hPa height/isotach/wind prognosis VT1200 (H+36)
1007 CP NOGAPS 0600 surface pressure preliminary analysis (4 hPa winter / 2 hPa summer)
1021 FSP in house prepared product FSME LERT (surface pressure/wind prognosis VT1200 (H+36))
1035 FSP in house prepared product satellite picture

1049 FSP in house prepared product OSME LERT (significant wave height prognosis VT1200 (H+36))
1103 CP NOGAPS surface prognosis North Atlantic VT1200 (H+36)
1119 CP NOGAPS 500 hPa SD/SR longwave prognosis VT0000 (H+36)
1135 CP NOGAPS surface pressure/wind prognosis VT0000 (H+48)
1149 CP NOGAPS 500 hPa height/temperature/wind prognosis VT0000 (H+48)
1203 CP NOGAPS surface pressure/wind prognosis VT0000 (H+72)
1217 CP NOGAPS thickness prognosis VT0000 (H+24)
1231 CP NOGAPS 500 hPa prognosis VT0000 (H+72)
1245 CP ECMWF surface pressure prognosis VT1200 (H+48)
1259 CP ECMWF 500 hPa height prognosis VT1200 (H+48)
1313 CP NOGAPS Middle East 0000 surface pressure/wind analysis
1327 CP NOGAPS Middle East surface pressure/wind prognosis VT1200 (H+36)
1341 CP NOGAPS Middle East 0000 500 hPa height/temperature/wind analysis
1355 CP NOGAPS Middle East 500 hPa height/temperature/wind prognosis VT1200 (H+36)
1409 CP NOGAPS Middle East 250 hPa height/temperature/wind prognosis VT1200 (H+36)
1423 CP ECMWF surface pressure prognosis VT1200 (H+96)
1437 CP ECMWF 500 hPa height prognosis VT1200 (H+96)
1451 CP NOGAPS 1200 surface pressure preliminary analysis (4 hPa winter / 2 hPa summer)
1505 CP ECMWF surface pressure prognosis VT1200 (H+120)
1521 CP ECMWF 500 hPa height prognosis VT1200 (H+120)
1535 FSP satellite picture
1549 FSP in house prepared product FSME LERT retransmission VT1200
1603 CP NORAPS 1200 surface pressure analysis
1617 CP NORAPS 1200 500 hPa analysis
1631 FSP NORAPS surface pressure prognosis VT0000 (H+36)
1645 CP NORAPS 500 hPa prognosis VT0000 (H+36)
1659 CP NORAPS surface pressure prognosis VT1200 (H+48)
1713 FSP in house prepared product 1200 surface pressure analysis (hand drawn)
1727 CP NOGAPS 1200 500 hPa height/temperature/wind analysis
1741 CP NOGAPS 1200 850 hPa height/temperature/wind analysis
1755 FSP in house prepared product test chart
1809 CP NOGAPS 1200 250 hPa height/isotach/wind analysis
1823 CP NOGAPS 1200 400 hPa height/temperature/wind analysis
1837 CP NOGAPS 1200 925 hPa height/temperature/wind analysis
1851 CP NOGAPS 1200 700 hPa height/temperature/wind analysis
1905 CP NOGAPS surface pressure/wind prognosis VT1200 (H+24)
1919 CP NOGAPS 500 hPa height/temperature/wind prognosis VT1200 (H+24)
1933 CP NOGAPS 850 hPa height/temperature/wind prognosis VT1200 (H+24)
1947 CP NOGAPS 250 hPa height/isotach/wind prognosis VT1200 (H+24)
2001 CP NOGAPS 400 hPa height/temperature/wind prognosis VT1200 (H+24)
2015 CP NOGAPS 925 hPa height/temperature/wind prognosis VT1200 (H+24)
2029 CP NOGAPS 700 hPa height/temperature/wind prognosis VT1200 (H+24)
2043 CP NOGAPS 1200 500 hPa SD/SR longwave analysis
2057 CP NOGAPS surface pressure/wind prognosis VT0000 (H+36)
2111 CP NOGAPS 850 hPa height/temperature/wind prognosis VT0000 (H+36)
2125 CP NOGAPS 500 hPa height/temperature/wind prognosis VT0000 (H+36)
2139 CP NOGAPS 700 hPa height/temperature/wind prognosis VT0000 (H+36)
2153 CP NOGAPS 250 hPa height/isotach/wind prognosis VT0000 (H+36)
2207 CP NOGAPS 1800 surface pressure preliminary analysis (4 hPa winter / 2 hPa summer)
2221 FSP in house prepared product FSME LERT (surface pressure/wind prognosis VT0000 (H+36))
2235 FSP in house prepared product satellite picture
2249 FSP in house prepared product OSME LERT (significant wave height prognosis VT0000 (H+36))
2305 CP NOGAPS 1200 GG Theta analysis
2319 CP NOGAPS 500 hPa SD/SR longwave prognosis VT1200 (H+36)
2335 CP NOGAPS surface pressure/wind prognosis VT1200 (H+48)
2349 CP NOGAPS 500 hPa height/temperature/wind prognosis VT1200 (H+48)

THAILAND

Bangkok Meteo	7394.0	HSW 64
	17519.0	HSW 61

→ 120/576
0210 test chart
0220 0200 radar networks
0340 0300 radar networks
→ 60/576
0400 ANAS VTBB 0000
→ 120/576
0435 0400 radar networks
→ 60/576
0445 ASAS VTBB 0000

→ 120/576
0520 0500 radar networks
→ 60/576
0530 AUAS VTBB 0000 850 hPa
0605 AUAS VTBB 0000 700 hPa
→ 120/576
0640 0600 radar networks
→ 60/576
0650 AUAS VTBB 0000 500 hPa
→ 120/576
0725 0700 radar networks
0820 0800 radar networks
0940 0900 radar networks
1020 1000 radar networks
→ 60/576
1100 ASAS VTBB 0600
→ 120/576
1135 1100 radar networks
1240 1200 radar networks
1320 1300 radar networks
→ 60/576
1400 ANAS VTBB 1200
1700 ASAS VTBB 1200
2300 ASAS VTBB 1800

TURKEY

Ankara Meteo	3377.0	YMA 20
	6790.0	YMA 20

→ 90/576
0440 ASTU LTAA 0000
0510 FBTU LTAA VT0000 (H+12)
0540 test chart
0600 ASTU LTAA 0300
0630 AUTU LTAA 0000 300 hPa
0715 AUTU LTAA 0000 500 hPa
0800 AUTU LTAA 0000 200 hPa
0830 FUTU LTAA 500 hPa VT0000 (H+24)
0900 FUTU LTAA 700 hPa VT0000 (H+24)
0930 FUTU LTAA 300 hPa VT0000 (H+24)
1000 ASTU LTAA 0600
1030 ANTU LTAA
1100 FSTU LTAA VT0000 (H+24)
1130 FSTU LTAA VT0000 (H+36)
1200 FBTU LTAA VT0600 (H+24)
1230 ASTU LTAA 0900
1322 AUTU LTAA 0000
maximum wind analysis
1350 FUTU LTAA ECMWF 500 hPa
VT1200 (H+48, H+72, H+96, H+120)
1600 ASTU LTAA 1200
1700 FBTU LTAA VT1200 (H+12)
1830 ASTU LTAA 1500
1900 AUTU LTAA 1200 500 hPa
1930 AUTU LTAA 1200 300 hPa
2000 FUTU LTAA 500 hPa VT1200 (H+24)
2030 AUTU LTAA 1200 200 hPa
2120 FUTU LTAA 300 hPa VT1200 (H+24)
2145 FSTU LTAA VT1200 (H+24)
2240 ASTU LTAA 1800
2305 FSTU LTAA VT1200 (H+36)

UNION OF SOVIET SOCIALIST REPUBLICS

Khabarovsk Meteo, SE	4516.7	RXB 72
	7475.0	RXB 75
	9230.0	RXO 70
	14737.0	RXO 72
	19275.0	RXO 74

→ 120/288
0000 FUXX RUHB 1200 500 hPa (H+24)
0010 FUXX RUHB 1200 500 hPa (H+48)
0055 FSXX RUHB 1800 (H+24)
0110 FSXX RUHB 1800 (H+36)
→ 90/576
0125 FBXX RUHB 1200 significant weather
chart and prognosis 300 hPa (VT0600)
0200 FBXX RUHB 1200 significant weather
chart and upper-wind forecast (VT0600)
→ 60/576
0240 ASXX RUHB 0000
→ 90/576
0345 AUXX RUHB 0000 850 hPa
→ 120/576
0420 AUXX RUHB 0000 300 hPa
0445 FUXX RUMS 1800 200 hPa (H+24)
0500 FUXX RUMS 1800 300 hPa (H+24)
0515 FBXX RUMS 1800
significant weather prognosis (H+24)
→ 90/576
0540 AUXX RUHB 0000 200 hPa
→ 120/288
0615 FUXX RUHB 0000 200 hPa (H+24)
0630 FUXX RUHB 0000 300 hPa (H+24)
0645 FUXX RUHB 0000 400 hPa (H+24)
→ 90/576
0705 AUXX RUHB 0000 tropopause
→ 120/576
0740 AUXX RUHB 0000 maximum wind
→ 90/576
0805 test chart
→ 60/576
0915 ASXX RUHB 0600
→ 120/576
1020 FUXX RUMS 0000 250 hPa (H+24)
1035 FUXX RUMS 0000 300 hPa (H+24)
1050 FBXX RUMS 0000
significant weather prognosis (H+24)
→ 90/576
1120 AUXX RUHB 0000 100 hPa
→ 120/288
1155 AXXX RUHB 0000 vertical motion
1225 FUXX RUHB 0000 850 hPa (H+24)
1235 FUXX RUHB 0000 850 hPa (H+48)
1245 FUXX RUHB 0000 700 hPa (H+24)
1255 FUXX RUHB 0000 700 hPa (H+48)
1305 FUXX RUHB 0000 500 hPa (H+36)
1315 FUXX RUHB 0000 500 hPa (H+48)
→ 60/576
1325 ASXX RUHB 1200
1440 ASXX RUHB 1200
→ 90/576
1545 AUXX RUHB 1200 850 hPa
→ 120/576
1620 AUXX RUHB 1200 300 hPa
1645 AOPA RUMS 3-day average
sea surface temperature analysis

for the North Pacific (daily, except 2., 12. and 22. of each month)
FOPA RUMS 5-day mean sea surface temperature prognostic chart for the North Pacific (2., 12. and 22. of each month)
FOPA RUMS North Pacific monthly sea surface temperature distribution prognostic chart (22. of each month)
1710 FUXX RUMS 0600 250 hPa (H+24)
1725 FUXX RUMS 0600 300 hPa (H+24)
1740 FBXX RUMS 0600 significant weather prognosis (H+24)
→ 120/288
1755 AUXX RUHB 1200 maximum wind
→ 90/576
1810 AUXX RUHB 1200 200 hPa
→ 120/576
1845 FUXX RUHB 1200 400 hPa (H+24)
→ 90/576
1900 AUXX RUHB 1200 tropopause
1935 FBXX RUHB 1200 significant weather chart and prognosis 300 hPa (VT0000)
2010 FBXX RUHB 1200 significant weather chart and upper-wind forecast (VT0000)
→ 60/576
2045 ASXX RUHB 1800
2150 test chart
→ 120/576
2220 FUXX RUMS 1200 250 hPa (H+24)
2235 FUXX RUMS 1200 300 hPa (H+24)
2250 FBXX RUMS 1200 significant weather prognosis (H+24)
2320 FUXX RUHB 1200 850 hPa (H+24)
2330 FUXX RUHB 1200 850 hPa (H+48)
2340 FUXX RUHB 1200 700 hPa (H+24)
2350 FUXX RUHB 1200 700 hPa (H+48)

Kiyev Meteo, UK	3360.0	RPN 71
	6950.0	RJK 78

→ 90/576
0020 chart
→ 60/576
0428 chart Black Sea area
→ 90/576
1221 chart
1845 chart
→ 60/576
2335 chart

Moscow Meteo, RU	53.6	RTO
	5150.0	RVO 73
	6880.0	RAN 77
	7670.0	RCC 76
	10230.0	RKA 78
	11525.0	RWZ 77
	13470.0	RKU 71

→ 90/576
0013 FBXX RUMS 1800 400 hPa (VT0600)
0030 AUXX RUMS 1800 500 hPa
0047 SDXX RUMS 0000 radar data
0110 test chart
→ 120/576
0235 FUXX RUMS 1200 200 hPa (H+24)
→ 90/576
0249 AUXX RUMS 0000 925 hPa
0305 AUXX RUMS 0000 tropopause
0330 AUXX RUMS 0000 400 hPa
0355 SDXX RUMS 0300 radar data
0420 AUXX RUMS 0000 300 hPa
→ 120/576
0445 FUXX RUMS 1800 250 hPa (H+24)
0500 FUXX RUMS 1800 300 hPa (H+24)
0515 FUXX RUMS 1800 significant weather chart (H+24)
→ 90/576
0530 AUXX RUMS 0000 200 hPa
0554 FBXX RUMS significant weather chart and prognosis above 400 hPa (VT1200)
0610 FBXX RUMS 300 hPa (VT1200)
→ 120/576
0625 ANXX RUMS 0000-0400 nephanalyses and forecasts of cloud systems
→ 90/576
0643 FBXX RUMS significant weather chart and prognosis below 400 hPa (VT1200)
0659 FBXX RUMS 400 hPa (VT1200)
0715 SDXX RUMS 0600 radar data
→ 120/576
0740 AXXX RUMS minimum temperature and amount of precipitations in the night-time
→ 90/576
0755 AUXX RUMS maximum wind
→ 120/576
0820 AUXX RUMS 0000 100 hPa
→ 90/576
0838 AUXX RUMS 0000 700 hPa
0905 AUXX RUMS 0600 850 hPa
0922 AUXX RUMS 0600 700 hPa
0939 AUXX RUMS 0600 500 hPa
0956 SDXX RUMS 0900 radar data
→ 120/576
1020 FUXX RUMS 0000 250 hPa (H+24)
1035 FUXX RUMS 0000 300 hPa (H+24)
1050 FBXX RUMS 0000 significant weather chart (H+24)
→ 90/576
1105 AUXX RUMS 0600 400 hPa
1120 FBXX RUMS significant weather chart and prognosis above 400 hPa (VT1800)
1138 FBXX RUMS 300 hPa (VT1800)
1155 FBXX RUMS significant weather chart and prognosis below 400 hPa (VT1800)
1213 FBXX RUMS 400 hPa (VT1800)
1230 AUXX RUMS 0600 300 hPa
1250 SDXX RUMS 1200 radar data
→ 120/576
1315 AUXN RUMS 0000 50 hPa
→ 60/576 or 120/576
1340 test chart
→ 120/576
1435 FUXX RUMS 0000 200 hPa (H+24)
→ 90/576
1449 AUXX RUMS 1200 925 hPa
1505 AUXX RUMS 1200 tropopause
1530 AUXX RUMS 1200 400 hPa
1555 SDXX RUMS 1500 radar data
1620 AUXX RUMS 1200 300 hPa
1645 AUXX RUMS 1200 200 hPa
→ 120/576
1710 FUXX RUMS 0600 250 hPa (H+24)
1725 FUXX RUMS 0600 300 hPa (H+24)

1740 FUXX RUMS 0600
significant weather chart (H+24)
1755 ANXX RUMS 1200-1600 nephanalyses
and forecasts of cloud systems
→ 90/576
1810 FBXX RUMS significant weather chart
and prognosis above 400 hPa (VT0000)
1828 FBXX RUMS 300 hPa (VT0000)
1845 FBXX RUMS significant weather chart
and prognosis below 400 hPa (VT0000)
1903 FBXX RUMS 400 hPa (VT0000)
1920 SDXX RUMS 1800 radar data
1945 AUXX RUMS 1200 maximum wind
2010 AUXX RUMS 1200 850 hPa
2035 AUXX RUMS 1200 700 hPa
2105 AUXX RUMS 1800 850 hPa
2122 AUXX RUMS 1800 700 hPa
2139 AUXX RUMS 1800 300 hPa
2155 SDXX RUMS 2100 radar data
→ 120/576
2220 FUXX RUMS 1200 250 hPa (H+24)
2235 FUXX RUMS 1200 300 hPa (H+24)
2250 FBXX RUMS 1200
significant weather chart (H+24)
→ 90/576
2304 AUXX RUMS 1800 400 hPa
2320 FBXX RUMS significant weather chart
and prognosis above 400 hPa (VT0600)
2338 FBXX RUMS 300 hPa (VT0600)
2355 FBXX RUMS significant weather chart
and prognosis below 400 hPa (VT0600)

Moscow Meteo, RU	2815.0	RVO 76
	3875.0	RCI 72
	5355.0	RND 77
	7750.0	RAW 78
	10710.0	RKA 73
	10980.0	RDD 79
	15950.0	RBI 77
	18710.0	RIZ 59

→ 90/576
0005 ANXS RUMS photo-mosaic
from METEOR satellite data
→ 60/576
0220 ASXX RUMS 0000
0255 ASXX RUMS 0000
→ 90/576
0330 AUXX RUMS 0000 850 hPa
0355 AUXX RUMS 0000 700 hPa
0420 AUXX RUMS 0000 500 hPa
0445 AHXX RUMS 0000 500/1000 hPa
0510 AWNT RUMS 0000 wave analysis
→ 120/576
0544 FUXX RUMS 0000
700 hPa (H+24, H+36)
0605 FUXX RUMS 0000
500 hPa (H+24, H+36)
→ 120/288
0626 FSXX RUMS 0000 (H+24)
→ 120/576
0639 FUXX RUMS 0000
850 hPa (H+24, H+36)
→ 120/288
0700 FSXX RUMS 0000 (H+36)
→ 120/576
0712 FUXX RUMS 0000 500 hPa (H+48)
→ 120/288
0733 FUXN RUMS 0000 500 hPa (H+24)
→ 120/576
0745 ASXN RUMS 0000
→ 90/576
0810 test chart
→ 60/576
0820 ASXX RUMS 0600
0855 ASXX RUMS 0600
→ 120/576
0930 AUXN RUMS 0000 500 hPa
→ 60/576
0955 FSXN RUMS 1200 (H+48,
H+72, H+96, H+120, H+144)
FUXN RUMS 1200 1000/500 hPa (H+48, H+72, H+96, H+120, H+144)
→ 120/576
1048 AUXN RUMS 0000 300 hPa
1113 FWNT RUMS 0000
wave prognosis (H+24, H+48)
→ 90/576
1135 AONT RUMS sea surface temperature
from satellite data and ships for Greenland Sea, Norwegian Sea and North Sea
(1., 4., 8., 11., 14., 18., 21., 24., 28.
of each month)
→ 120/576
1135 FONT RUMS 5-day mean sea surface
temperature prognosis for North
Atlantic from 3 October to 3 March
(3., 13., 23. of each month)
AOXT RUMS 5-day mean sea surface
temperature analysis for tropical belt
(2., 7., 12., 17., 22., 27.
of each month)
FONT RUMS sea surface temperature
prognosis and anomalies for North
Atlantic from 23 May to 23 September
(23. of each month)
→ 60/576
1159 ASXT RUMS 0000
1247 ASXT RUMS 0000
1332 AUXT RUMS 0000 500 hPa
1420 ASXX RUMS 1200
1455 ASXX RUMS 1200
→ 90/576
1530 AUXX RUMS 1200 850 hPa
1555 AUXX RUMS 1200 700 hPa
1620 AUXX RUMS 1200 500 hPa
1645 ASXS RUMS 0000
1708 AWNT RUMS 1200 wave analysis
1739 AHXX RUMS 1200 500/1000 hPa
→ 120/288
1822 FSXX RUMS 1200 (H+24)
1835 FUXX RUMS 1200 700 hPa (H+24)
1848 FUXX RUMS 1200 850 hPa (H+24)
→ 120/576
1901 ASXN RUMS 1200
1946 test chart
1956 AONT RUMS sea surface temperature
analysis for North Atlantic
→ 60/576
2020 ASXX RUMS 1800
2055 ASXX RUMS 1800
→ 120/576
2130 AUXN RUMS 1200 500 hPa
2155 AUXN RUMS 1200 300 hPa

2340	ANXT RUMS 1200 photo-mosaic from METEOR satellite data

Moscow Meteo, RU	144.5	RCG
	4202.5	RAT 21
	12165.0	RKB 78

→ 90/576	
0920	300 hPa SYNOPs West Atlantic
0955	SYNOPs West Siberia
→ 90/288	
1125	prognostic chart Eastern Europe
1148	prognostic chart Russia
→ 90/576	
1310	SYNOPs West Siberia
1340	SYNOPs and surface analysis Russia
→ 120/576	
1410	500 hPa analysis South America
1420	ASXX RUMS 1200 North Siberia
→ 90/576	
1500	ASXX RUMS 1200 West Siberia
→ 120/576	
1735	FUXX RUMS 700 hPa USSR
1755	FUXX RUMS 500 hPa USSR
→ 90/576	
2055	FUXX RUMS USSR

Murmansk Meteo, RU	10130.0	RBW 48

→ 120/576	
0700	surface pressure forecast Barents Sea VT0000 (H+36)
0800	0600 sea state analysis Barents Sea
1400	• 1200 surface temperature analysis Barents Sea • iceberg positions for Barents Sea
1430	sea state forecast Barents Sea VT1200 (H+24)
→ 90/576	
1850	chart

Murmansk Meteo, RU	10520.0

→ 120/576 LSB	
0230	chart Northern Europe
→ 90/576	
0800	chart Europe - Western Siberia
→ 120/576	
0823	chart Europe - Western Siberia
→ 60/288	
1015	FUXX 500 hPa (H+24) North Atlantic - Norwegian Sea - Europe
→ 120/576 LSB	
1320	chart Norwegian Sea / Barents Sea
→ 90/288 LSB	
1340	(ice ?) chart Norwegian Sea / Barents Sea
→ 120/576 LSB	
1420	chart Norwegian Sea
1442	chart Norwegian Sea
1530	chart Arctic Ocean 80° W - 100° E zenithal projection
→ 90/576 LSB	
1620	(ice ?) chart Norwegian Sea / Barents Sea

Novosibirsk Meteo, SW	3635.0	RCK 77
	4475.0	
	5335.0	ROF 76
	9060.0	RCU 73
	12230.0	RCU 79

→ 90/576	
0012	FUXX RUNW 1200 850 hPa (H+48)
0027	FUXX RUNW 1200 700 hPa (H+48)
0057	FBXX RUNW VT0600
0112	ARXX RUNW 0000
0157	FSXX RUNW VT0600
0212	FBXX RUNW 300 hPa (VT0600)
0227	FBXX RUNW 200 hPa (VT0600)
0405	ARXX RUNW 0300
0448	AUXX RUNW 0000 300 hPa
0535	FUXX RUNW 0000 925 hPa (H+24)
0550	FUXX RUNW 0000 925 hPa (H+36)
0605	AXXX RUNW 0000 precipitation and mean temperature
0637	AUXX RUNW 0000 400 hPa
0710	ARXX RUNW 0600
0725	FBXX RUNW VT1200
0740	FSXX RUNW VT1200
0755	FBXX RUNW 0000 300 hPa (VT1200)
0810	FBXX RUNW 0000 200 hPa (VT1200)
0840	FUXX RUNW 0000 700 hPa (H+24)
0855	FUXX RUNW 0000 700 hPa (H+36)
0910	AXXX RUNW 0000 vertical motion
0925	FXXX RUNW 0000 vertical motion (H+24)
0940	FXXX RUNW 0000 vertical motion (H+36)
1130	SMXX RUNW 0900
1225	FSXX RUNW VT1800
1240	FBXX RUNW 0000 300 hPa (VT1800)
1255	FBXX RUNW 0000 200 hPa (VT1800)
1310	ARXX RUNW 1200
1610	ARXX RUNW 1500
1730	SMXX RUNW 1500
1802	AUXX RUNW 1200 925 hPa
1834	AUXX RUNW 1200 400 hPa
1910	ARXX RUNW 1800
1925	FBXX RUNW VT0000
1955	FSXX RUNW VT0000
2010	FBXX RUNW 1200 300 hPa (VT0000)
2025	FBXX RUNW 1200 200 hPa (VT0000)
2040	FUXX RUNW 1200 500 hPa (H+72)
2100	FUXX RUNW 1200 500 hPa (H+96)
2120	FUXX RUNW 1200 500 hPa (H+120)
2140	FUXX RUNW 1200 500 hPa (H+144)
2210	ARXX RUNW 2100
2325	SMXX RUNW 2100

Novosibirsk Meteo, SW	5765.0	RYO 79
	9220.0	RTB 26
	12320.0	RYO 76

→ 90/576	
0000	AUXX RUNW 1800 300 hPa
0245	ASXX RUNW 0000
0317	ANXX RUNW pictures of METEOR satellite
0340	AUXX RUNW 0000 700 hPa
0413	AUXX RUNW 0000 850 hPa

→ 120/576
0447 FSXX RUNW 5-day and 10-day mean temperature anomaly
→ 90/576
0500 AUXX RUNW 0000 500 hPa
0535 FSXX RUNW 0000 (H+24)
0550 FSXX RUNW 0000 (H+36)
0605 AUXX RUNW 0000 925 hPa
0620 FSXX RUNW development of synoptic situation for 3 days and for a synoptic period
→ 120/576
0635 AHXX RUNW 0000 500/1000 hPa
0710 AUXX RUNW 0000 400 hPa
→ 90/576
0729 FUXX RUNW 0000 850 hPa (H+24)
0744 FUXX RUNW 0000 850 hPa (H+36)
0817 AUXX RUNW 0000 200 hPa
0832 AUXX RUNW 0000 tropopause
0847 ASXX RUNW 0600
0920 FUXX RUNW 0000 200 hPa (H+24)
1035 FSXX RUNW development of synoptic situation for 3 days and for a synoptic period
→ 120/576
1430 ANXX RUNW pictures of METEOR satellite
→ 90/576
1447 ASXX RUNW 1200
1530 AUXX RUNW 1200 700 hPa
1605 AUXX RUNW 1200 850 hPa
1640 AUXX RUNW 1200 300 hPa
1715 AHXX RUNW 1200 500/1000 hPa
1750 AUXX RUNW 1200 500 hPa
1825 FXXX RUNW 1200 vertical motion (H+24)
1840 FXXX RUNW 1200 vertical motion (H+36)
1855 FUXX RUNW 1200 850 hPa (H+24)
1910 FUXX RUNW 1200 850 hPa (H+36)
1925 FUXX RUNW 1200 700 hPa (H+24)
1940 FUXX RUNW 1200 700 hPa (H+36)
1955 FUXX RUNW 1200 500 hPa (H+24)
2010 FUXX RUNW 1200 500 hPa (H+36)
2033 ASXX RUNW 1800
2152 AUXX RUNW 1800 700 hPa
2227 AUXX RUNW 1800 850 hPa
2250 AUXX RUNW 1800 400 hPa
2326 AUXX RUNW 1800 500 hPa

Rostov-na-Donu Meteo, UK	3610.0	ROO 70
	7630.0	RNR 78
	7967.5	RFU 7
	9100.0	

→ 60/576
0725 chart Black Sea area
1030 chart Black Sea area
1330 photo mosaic from METEOR satellite data
→ 90/576
1613 surface analysis of Black Sea area
→ 60/576
1910 chart Black Sea / North Caspian Sea area

Tashkent Meteo, UZ	3280.0	RBX 70
	5285.0	RBX 71
	8083.0	RIJ 75
	9150.0	RCH 73
	13947.0	ROM 5

→ 90/576
0050 SDRA RUTK 0000
→ 60/576
0130 FBRA RUTK 1200 significant weather chart VT0600
→ 90/576
0258 FURA KWBC 0000 500 hPa (H+48)
0315 AUXX RUTK 0000 300 hPa
0350 SDRA RUTK 0300
0410 AUXX RUTK 0000 500 hPa
0500 ASXX RUTK 0300
0550 AUXX RUTK 0000 200 hPa
0625 SMXX RUTK 0300 precipitation and minimum temperatures
0640 AUXX RUTK 0000 400 hPa
0715 AUXX RUTK 0000 100 hPa
0750 FBRA/FUXX RUTK 0000 significant weather chart and prognosis 300 hPa (VT1500)
→ 60/576
0830 AUXN RUTK 0600 500 hPa
→ 90/576
0915 AUXX RUTK 0000 maximum wind chart
0950 SDRA RUTK 0900
1115 FBXX RUTK significant weather chart and prognosis 300 hPa (VT1800)
1250 SDRA RUTK 1200
→ 60/576
1325 FBXX RUTK 0000 prebaric chart (VT1800)
→ 90/576
1515 AUXX RUTK 1200 300 hPa
1550 SDRA RUTK 1500
1605 AUXX RUTK 1200 500 hPa
1640 AUXX RUTK 1200 850 hPa
1720 AUXX RUTK 1200 200 hPa
1755 AUXX RUTK 1200 100 hPa
1830 AHXX RUTK 1200 500/1000 hPa
1905 SDRA RUTK 1800
1930 FBXX RUTK 1200 significant weather chart and prognosis (VT0000)
2015 AUXX RUTK 1200 maximum wind chart
2105 AUXX RUTK 1800 850 hPa
2122 AUXX RUTK 1800 700 hPa
2139 AUXX RUTK 1800 500 hPa
2155 AUXX RUTK 1800 400 hPa
2212 AUXX RUTK 1800 300 hPa
2320 FBXX RUTK significant weather chart and prognosis 300 hPa (VT0600)

Tashkent Meteo, UZ	3690.0	RBV 70
	4365.0	RPJ 78
	5890.0	RBV 78
	7570.0	RBX 72
	9340.0	RCH 72
	14982.5	RBV 76

→ 90/576
0110 SDRA RUTK 0000

→ 60/576
0130 FBRA RUTK VT0600 significant weather
0155 ASXX RUTK 0000
0255 ASXX RUTK 0000
→ 90/576
0345 AUXX RUTK 0000 700 hPa
0420 ANXX RUTK nephanalysis
→ 120/576
0450 AUXX RUTK 0000 300 hPa
→ 90/576
0515 AUXX RUTK 0000 850 hPa
→ 120/288
0625 FUXX RUTK 0000 500 hPa (H+36)
→ 90/576
0633 FXXX RUTK 0000 vertical motion at 850/700/500 hPa (H+36)
0650 SDRA RUTK 0600
0720 AUXX RUTK 0000 400 hPa
→ 60/576
0755 ASXX RUTK 0600
0845 AUXX RUTK 0600 50 hPa
→ 90/576
0930 AUXX RUTK 0000 tropopause
1005 AHXX RUTK 0000 500/1000 hPa
→ 60/576
1055 ASXX RUTK 0900
→ 90/576
1215 ANXX RUTK nephanalysis
→ 60/576
1325 FBRA RUTK VT1800 significant weather
1355 ASXX RUTK 1200
1455 ASXX RUTK 1200
→ 90/576
1540 AUXX RUTK 1200 700 hPa
1615 AUXX RUTK 1200 400 hPa
→ 60/576
1655 ASXX RUTK 1500
→ 90/576
1745 AUXX RUTK 1200 500/1000 hPa
→ 120/288
1850 FUXX RUTK 1200 500 hPa (H+36)
→ 60/576
1905 SMXX RUTK 1500 precipitation and extremes of temperatures
1930 ASXX RUTK 1800
2020 ASXX RUTK 1800
→ 90/576
2105 FXXX RUTK 1200 vertical motion at 850/700/500 hPa (H+36)
2122 AUXX RUTK 1200 tropopause
2200 SDRA RUTK 2100
→ 60/576
2255 ASXX RUTK 2100
→ 90/576
2345 AXXX/FXXX RUTK 1200 vertical motion at 850/700/500 hPa (H+24)

Tbilisi Meteo, GE	3745.0	RIS 70
	7495.0	RDK 23

→ 90/576
0330 chart Black Sea - Caspian Sea area
→ 60/288
0700 ASXX Black Sea - Caspian Sea area
→ 90/576
1545 chart Black Sea - Caspian Sea area
2320 chart

UNITED KINGDOM

Bracknell Meteo	2618.5	GFE 25
	4782.0	GFE 21
	9203.0	GFE 22
	14436.0	GFE 23
	18261.0	GFE 24

→ 120/576
0000 FUXX EGRR VT1200 NAT FL340 (H+24)
0012 FUXX EGRR VT1200 NAT FL300 (H+24)
0024 FUXX EGRR VT1200 NAT FL390 (H+24)
0036 FUXX EGRR VT1200 NAT FL180 (H+24)
0048 FUXX EGRR VT1200 EUR FL390 (H+24)
0100 FUXX EGRR VT1200 EUR FL340 (H+24)
0112 FUXX EGRR VT1200 EUR FL300 (H+24)
0124 FUXX EGRR VT1200 EUR FL240 (H+24)
0136 FUXX EGRR VT1200 EUR FL180 (H+24)
0148 FUXX EGRR VT1200 EUR FL100 (H+24)
0200 FUXX EGRR VT1200 EUR FL50 (H+24)
0224 FBXX EGRR VT1200 NAT significant weather (H+24)
0236 FBXX EDZW VT1200 MID significant weather (H+24)
0248 FBEU EDZW VT1200 EUR significant weather (H+24)
0300 FBXX10 EGRR VT1200 plain language WAFS amendments
0305 FUXX EGRR VT1200 AFI FL300 (H+24)
0317 FUXX EGRR VT1200 AFI FL390 (H+24)
0329 FUXX EGRR VT1200 AFI FL340 (H+24)
→ 120/288
0341 ASXX EGRR 0000
→ 120/576
0347 FBAF LFPW 1200 AFI significant weather (H+24)
→ 120/288
0431 FSXX EGRR 0000 (H+24)
→ 120/576
0518 FUXX EGRR VT0000 EUR FL50 (H+18)
0530 FUXX EGRR VT0000 MID FL340 (H+18)
0542 FUXX EGRR VT0000 MID FL300 (H+18)
0554 FUXX EGRR VT0000 MID FL390 (H+18)
0606 FUXX EGRR VT0000 NAT FL340 (H+18)
0618 FUXX EGRR VT0000 NAT FL300 (H+18)
0630 FUXX EGRR VT0000 NAT FL390 (H+18)
0642 FUXX EGRR VT0000 NAT FL180 (H+18)
0654 FUXX EGRR VT0000 EUR FL390 (H+18)
0706 FUXX EGRR VT0000 EUR FL340 (H+18)
0718 FUXX EGRR VT0000 EUR FL300 (H+18)
0730 FUXX EGRR VT0000 EUR FL240 (H+18)
0742 FUXX EGRR VT0000 EUR FL180 (H+18)
0754 FUXX EGRR VT0000 EUR FL100 (H+18)
→ 120/288
0806 FS/FUXX EGRR VT0000 surface / thickness 500/1000 hPa (H+48, H+72)
→ 120/576
0824 FBXX EGRR VT0000 NAT significant weather (H+18)

0836 FBXX EDZW VT0000 MID significant weather (H+18)
0848 FBEU EDZW VT0000 EUR significant weather (H+18)
0900 FUXX EGRR VT0000 AFI FL340 (H+18)
0912 FUXX EGRR VT0000 AFI FL300 (H+18)
0924 FBXX10 EGRR VT0000 plain language WAFS amendments
→ 120/288
0929 AXNT EGRR 0000 wave analysis
0935 FXNT EGRR VT0000 wave prognosis (H+24)
0941 ASXX EGRR 0600
→ 120/576
0947 FUXX EGRR VT0000 AFI FL390 (H+18)
→ 120/288
1010 FXNT EGRR VT0000 sea/swell (H+48)
→ 120/576
1016 FBAF LFPW VT0000 AFI significant weather (H+18)
→ 120/288
1031 FSXX EGRR 0600 (H+24)
1045 FS/FUXX EGRR VT0000 surface / thickness 500/1000 hPa (H+48, H+72)
→ 120/576
1051 FXNT EGRR extended North Atlantic inference
1124 FUXX EGRR VT0000 MID FL340 (H+24)
1136 FUXX EGRR VT0000 MID FL300 (H+24)
1148 FUXX EGRR VT0000 MID FL390 (H+24)
1200 FUXX EGRR VT0000 NAT FL340 (H+24)
1212 FUXX EGRR VT0000 NAT FL300 (H+24)
1224 FUXX EGRR VT0000 NAT FL390 (H+24)
1236 FUXX EGRR VT0000 NAT FL180 (H+24)
1248 FUXX EGRR VT0000 EUR FL390 (H+24)
1300 FUXX EGRR VT0000 EUR FL340 (H+24)
1312 FUXX EGRR VT0000 EUR FL300 (H+24)
1324 FUXX EGRR VT0000 EUR FL240 (H+24)
1336 FUXX EGRR VT0000 EUR FL180 (H+24)
1348 FUXX EGRR VT0000 EUR FL100 (H+24)
1400 EGRR radio frequency check
→ 120/288
1412 AXXX EGRR sea temperature for British waters
→ 120/576
1424 FBXX EGRR VT0000 NAT significant weather (H+24)
1436 FBXX EDZW VT0000 MID significant weather (H+24)
1448 FBEU EDZW VT0000 EUR significant weather (H+24)
1500 FUXX EGRR VT0000 AFI FL300 (H+24)
1512 FUXX EGRR VT0000 AFI FL390 (H+24)
1524 FUXX EGRR VT0000 AFI FL340 (H+24)
1536 FBXX10 EGRR VT0000 plain language WAFS amendments
→ 120/288
1541 ASXX EGRR 1200
→ 120/576
1547 FBAF LFPW VT0000 AFI significant weather (H+24)
1602 SXNT EGRR sea ice
1622 EGRR general notices
→ 120/288
1631 FSXX EGRR VT1200 (H+24)
→ 120/576
1718 FUXX EGRR VT1200 EUR FL50 (H+18)
1730 FUXX EGRR VT1200 MID FL340 (H+18)
1742 FUXX EGRR VT1200 MID FL300 (H+18)
1754 FUXX EGRR VT1200 MID FL390 (H+18)
1806 FUXX EGRR VT1200 NAT FL340 (H+18)
1818 FUXX EGRR VT1200 NAT FL300 (H+18)
1830 FUXX EGRR VT1200 NAT FL390 (H+18)
1842 FUXX EGRR VT1200 NAT FL180 (H+18)
1900 FUXX EGRR VT1200 EUR FL390 (H+18)
1912 FUXX EGRR VT1200 EUR FL340 (H+18)
1924 FUXX EGRR VT1200 EUR FL300 (H+18)
1936 FUXX EGRR VT1200 EUR FL240 (H+18)
1948 FUXX EGRR VT1200 EUR FL180 (H+18)
2000 FUXX EGRR VT1200 EUR FL100 (H+18)
→ 120/288
2012 AXNT EGRR 1200 wave analysis
2018 FXNT EGRR VT1200 wave prognosis (H+24)
→ 120/576
2024 FBXX EGRR VT1200 NAT significant weather (H+18)
2036 FBXX EDZW VT1200 MID significant weather (H+18)
2048 FBEU EDZW VT1200 EUR significant weather (H+18)
2100 FBAF LFPW VT1200 AFI significant weather (H+18)
2115 FUXX EGRR VT1200 AFI FL300 (H+18)
→ 120/288
2141 ASXX EGRR 1800
→ 120/576
2147 FBXX10 EGRR VT1200 plain language WAFS amendments
→ 120/288
2152 FXNT EGRR VT1200 sea/swell (H+48)
→ 120/576
2158 FUXX EGRR VT1200 AFI FL390 (H+18)
2210 FUXX EGRR VT1200 AFI FL340 (H+18)
→ 120/288
2222 FS/FUXX EGRR VT1200 surface / thickness 500/1000 hPa (H+48, H+72)
2231 FSXX EGRR VT1800 (H+24)
→ 120/576
2251 FUXX EGRR VT1200 MID FL340 (H+24)
2303 FUXX EGRR VT1200 MID FL300 (H+24)
2315 FUXX EGRR VT1200 MID FL390 (H+24)
2327 FSXX EGRR VT1800 (H+24)

Bracknell Meteo	3289.5	GFA 21
	4610.0	GFA 22
	8040.0	GFA 23
	11086.5	GFA 24
	14582.5	GFA 25

→ 120/576
0305 FUXX KWBC VT1200 surface / thickness 500/1000 hPa (H+36)
→ 120/288
0317 AUEW EGRR 0000 preliminary 500 hPa / thickness 500/1000 hPa

0341 ASXX EGRR 0000
0431 FSXX EGRR VT0000 (H+24)
0438 AUXX EGRR 0000 500 hPa / thickness 500/1000 hPa
0448 AUXX EGRR 0000 300 hPa
0458 AUXX EGRR 0000 200 hPa
0508 AUXX EGRR 0000 100 hPa
0518 AUXX EGRR 0000 700 hPa
0528 AUXX EGRR 0000 850 hPa
0630 FUXX EGRR VT0000 500 hPa / thickness 500/1000 hPa (H+24)
0640 FUXX EGRR VT0000 300 hPa (H+24)
0650 FUXX EGRR VT0000 200 hPa (H+24)
0700 FUXX EGRR VT0000 850 hPa (H+24)
0710 FS/FUXX EGRR VT0000 surface / thickness 500/1000 hPa (H+48, H+72)
0720 FUXX EGRR VT0000 700 hPa (H+24)
0812 ASXN EGRR 0000
0901 FUXX EGRR VT0000 100 hPa (H+24)
0920 AUXN EGRR 0000 500 hPa
0929 AXNT EGRR 0000 wave analysis
0935 FXNT EGRR VT0000 wave prognosis (H+24)
0941 ASXX EGRR 0600
→ 120/576
0959 FUXX KWBC VT0000 500 hPa (H+36)
→ 120/288
1010 FXNT EGRR VT0000 sea/swell (H+48)
1031 FSXX EGRR VT0600 (H+24)
→ 120/576
1037 FUXX KWBC VT0000 vorticity 500 hPa (H+48)
1103 FUXX KWBC VT0000 500 hPa (H+72)
1114 FUXX KWBC VT0000 surface / thickness 500/1000 hPa (H+36)
1131 FUXX KWBC 5-day mean 700 hPa height
1400 EGRR radio frequency check
→ 120/288
1516 AUEU EGRR 1200 preliminary 500 hPa / thickness 500/1000 hPa
→ 120/576
1522 KWBC 30 day temperature outlook
→ 120/288
1541 ASXX EGRR 1200
→ 120/576
1602 SXNT EGRR sea ice
1622 EGRR general notices
→ 120/288
1631 FSXX EGRR VT1200 (H+24)
1708 AUXX EGRR 1200 500 hPa / thickness 500/1000 hPa
1720 AUXX EGRR 1200 300 hPa
1730 AUXX EGRR 1200 200 hPa
1740 AUXX EGRR 1200 700 hPa
1750 AUXX EGRR 1200 100 hPa
1800 AUXX EGRR 1200 850 hPa
1820 FUXX EGRR VT1200 500 hPa / thickness 500/1000 hPa (H+24)
1830 FUXX EGRR VT1200 300 hPa (H+24)
1840 FUXX EGRR VT1200 200 hPa (H+24)
1850 FUXX EGRR VT1200 100 hPa (H+24)
1900 FUXX EGRR VT1200 850 hPa (H+24)
1910 FUXX EGRR VT1200 700 hPa (H+24)
→ 120/576
1920 AUXX KWBC 1200 500 hPa
→ 120/288
2012 AXNT EGRR 1200 wave analysis
2018 FXNT EGRR VT1200 wave prognosis (H+24)
2141 ASXX EGRR 1800
2152 FXNT EGRR VT1200 sea/swell (H+48)
2222 FS/FUXX EGRR VT1200 surface / thickness 500/1000 hPa (H+48, H+72)
2231 FSXX EGRR VT1800 (H+24)
→ 120/576
2237 FUXX KWBC VT1200 vorticity 500 hPa (H+48)
2333 FUXX KWBC VT1200 500 hPa (H+36)
2345 FUXX KWBC VT1200 500 hPa (H+72)

RN London		
	2813.6	GYA 1
	3436.6	GZZ 6
	4247.6	GZZ 2
	6436.6	GYD 3
	8494.6	GZZ 40
	12741.6	GZZ 44
	16938.6	GYA

→ 120/576
0300 schedule
0315 surface analysis 0000 Northeast Atlantic
0340 4-panel:
significant surface weather prognosis VT1800 (H+24) Northeast Atlantic;
surface wind prognosis VT1800 (H+24) Northeast Atlantic;
surface wind prognosis VT1200 (H+96) Northeast Atlantic;
surface wind prognosis VT1200 (H+120) Northeast Atlantic;
0600 selected upper air ascents 0000
0630 surface analysis 0000 Northeast Atlantic
0655 2-panel:
0° C level prognosis VT1200 Northeast Atlantic;
2° C level prognosis VT1200 Northeast Atlantic
0705 4-panel:
significant surface weather prognosis VT1800 (H+24) Northeast Atlantic;
surface wind prognosis VT1800 (H+24) Northeast Atlantic;
surface wind prognosis VT1200 (H+96) Northeast Atlantic;
surface wind prognosis VT1200 (H+120) Northeast Atlantic;
0800 gale warnings summary VT0800 Northeast Atlantic
0940 surface analysis 0600 Northeast Atlantic
1030 gale warnings summary VT1000 Northeast Atlantic
1055 sea surface temperature analysis Northeast Atlantic
1305 4-panel:
significant surface weather prognosis VT0600 (H+24) Northeast Atlantic;
surface wind prognosis VT0600 (H+24) Northeast Atlantic;
surface wind prognosis VT0600 (H+48) Northeast Atlantic;
surface wind prognosis VT0600 (H+72) Northeast Atlantic;
1330 sea/swell prognosis VT0600
1500 surface analysis 1200 Northeast Atlantic

1525	specials
1550	specials
1635	schedule
1645	selected upper air ascents 1200
1735	gale warnings summary VT1700 Northeast Atlantic
1800	surface analysis 1200 Northeast Atlantic
1825	4-panel: significant surface weather prognosis VT0600 (H + 24) Northeast Atlantic; surface wind prognosis VT0600 (H + 24) Northeast Atlantic; surface wind prognosis VT0600 (H + 48) Northeast Atlantic; surface wind prognosis VT0600 (H + 72) Northeast Atlantic;
1850	sea/swell prognosis VT0600

RN London	8334.0	GYA
	16115.0	GYA

→ 120/576

0530	preliminary surface analysis 0000 Southwest Atlantic
0710	preliminary surface analysis 0000 Southwest Atlantic
0850	surface prognosis VT0000 (H + 24) Southwest Atlantic
0915	surface prognosis VT0000 (H + 48) Southwest Atlantic
0940	satellite picture
1005	schedule
1015	schedule
1110	final surface analysis 0000 Southwest Atlantic
1130	preliminary surface analysis 0600 Southwest Atlantic
1225	surface prognosis VT0000 (H + 24) Southwest Atlantic
1250	surface prognosis VT0000 (H + 48) Southwest Atlantic
1400	final surface analysis 0600 Southwest Atlantic
1420	satellite picture
1440	satellite picture
1500	schedule and notices
1730	preliminary surface analysis 1200 Southwest Atlantic
2010	surface prognosis VT1200 (H + 24) Southwest Atlantic
2035	surface prognosis VT1200 (H + 48) Southwest Atlantic
2125	final surface analysis 1200 Southwest Atlantic
2150	surface prognosis VT1200 (H + 24) Southwest Atlantic
2215	surface prognosis VT1200 (H + 48) Southwest Atlantic

UNITED STATES OF AMERICA

Mobile R, AL	6852.0	WLO
	9157.5	WLO

→ 120/576

0310	offshore marine forecasts
0900	Gulf surface analysis 0600
0910	Gulf surface prognosis (H + 18, H + 36)
0920	coastal marine forecast
1100	North Gulf aviation forecasts
1440	FAX schedule (Monday)
1450	Gulf surface analysis 1200
1500	North American surface analysis 1200
1510	offshore marine forecasts
1900	North Gulf aviation forecasts
2030	Gulf surface analysis 1800
2040	oceanographic products: • East and West Gulf sea surface temperature (Monday) • East and West Gulf flow stream analysis (Tuesday) • East and West Gulf sea surface temperature (Wednesday) • East and West Gulf flow stream analysis (Thursday) • East and West Gulf sea surface temperature (Friday) • East and West Gulf flow stream analysis (Saturday)
2050	Gulf surface prognosis (H + 18, H + 36)
2100	coastal marine forecast

NWS Lewes, DE	4223.0	KWX

→ 120/576

0645	extended surface prognosis (day 3 - 5)
0655	oceanographic analysis
0705	surface analysis
0717	surface prognosis
0729	alphanumeric forecast
0739	North Atlantic analysis
0751	North Atlantic prognosis
0803	North Atlantic alphanumeric forecast
1845	extended surface prognosis (day 3 - 5)
1855	oceanographic analysis
1905	surface analysis
1917	surface prognosis
1929	alphanumeric forecast
1939	North Atlantic analysis
1951	North Atlantic prognosis
2003	North Atlantic alphanumeric forecast

USCG Boston, MA	3242.0	NMF
	7530.0	NMF

→ 120/576

0530	analysis New England Waters
0540	surface forecast (H + 12) New England Waters
0550	surface forecast (H + 36) New England Waters
0600	extended forecast New England Waters
1730	analysis New England Waters

1740	surface forecast (H+24) New England Waters
1750	surface forecast (H+48) New England Waters
1800	oceanographic analysis New England Waters

USCG San Francisco, CA	4346.0	NMC
	8682.0	NMC
	12730.0	NMC
	17151.2	NMC
	22527.0	NMC

→ 120/576

0145	test pattern
0149	surface forecast VT0000
0200	sea state forecast VT0000
0300	test pattern
0304	sea surface temperature analysis
0315	sea surface temperature analysis
0326	satellite analysis
0339	satellite analysis
0500	test pattern
0504	0000 surface analysis
0515	extended surface forecast
0526	sea surface temperature analysis East Pacific
1500	test pattern
1503	satellite picture
1515	satellite picture
1715	test pattern
1719	1200 tropical analysis
1730	1200 surface analysis
1741	satellite picture
2015	test pattern
2019	radiofax schedule
2030	500 hPa maximum winds
2041	satellite picture
2330	test pattern
2334	1800 tropical analysis
2345	1800 surface analysis

USN Norfolk, VA	3357.0	NAM
	8080.0	NAM
	10865.0	NAM
	16410.0	NAM
	20015.0	NAM

→ 120/576

0000	NFAX schedule
0015	850 hPa height/temperature/wind prognosis VT0000 (H+36)
0030	500 hPa height/temperature/wind prognosis VT0000 (H+36)
0045	500 hPa height/temperature/wind prognosis VT1200 (H+48)
0100	surface pressure prognosis South Atlantic VT0000 (H+36)
0115	surface pressure prognosis South Atlantic VT0000 (H+48)
0130	500 hPa pressure prognosis South Atlantic VT0000 (H+36)
0145	500 hPa pressure prognosis South Atlantic VT0000 (H+48)
0200	GOES satellite picture full disk (ch 2)
0215	NMC extended surface / upper air prognosis
0230	open period
0240	RAFC significant weather prognosis FL 250-600 VT1200 (H+12)
0300	NMC 500 hPa height change VT0000 (H+24)
0300	NMC significant surface - 400 hPa weather prognosis VT1200 (H+12)
0315	NEOC prognosis blend VT0000 (H+36)
0330	NWS radar summary VT0000
0345	surface pressure analysis South Atlantic 0000
0400	500 hPa pressure analysis South Atlantic 0000
0415	FNOC preliminary surface analysis North Atlantic 0000
0430	tropical surface pressure/ wind analysis 0000
0445	open period (tropical warnings)
0500	NMC NGM prognosis VT0000 (H+24)
0515	GOES satellite picture Gulf of Mexico (ch 14)
0530	Bracknell surface prognosis VT0000 (H+24)
0545	GOES satellite picture North Atlantic (ch 15)
0600	NMC NGM prognosis VT0000 (H+48)
0615	NMC radar summary
0630	850 hPa height/temperature/wind analysis 0000
0645	700 hPa height/temperature/wind analysis 0000
0700	500 hPa height/temperature/wind analysis 0000
0715	300 hPa height/temperature/wind analysis 0000
0730	surface pressure/wind prognosis VT1200 (H+12)
0745	GOES satellite picture Gulf of Mexico (ch 14)
0800	surface pressure/wind prognosis VT0000 (H+24)
0815	surface pressure/wind prognosis VT0000 (H+48)
0830	NMC significant weather prognosis VT0000 (H+24)
0840	NMC significant weather prognosis (H+36/H+48)
0850	Bracknell significant wave prognosis VT0000 (H+48)
0905	significant wave height prognosis VT0000 (H+24)
0920	preliminary surface pressure analysis 0600
0935	200 hPa height/temperature/wind prognosis VT0000 (H+24)
0950	open period (tropical warnings)
1000	NEOC high wind/sea warnings VT0000 (H+12)
1015	850 hPa height/temperature/wind prognosis VT0000 (H+24)
1030	700 hPa height/temperature/wind prognosis VT0000 (H+24)
1045	500 hPa height/temperature/wind prognosis VT0000 (H+24)
1100	400 hPa height/temperature/wind prognosis VT0000 (H+24)

1115	GOES satellite picture North Atlantic (ch 15)
1130	300 hPa height/temperature/wind prognosis VT0000 (H + 24)
1145	freezing level prognosis VT0000 (H + 24)
1200	NMC boundary layer analysis 0000
1215	850 hPa height/temperature/wind prognosis VT1200 (H + 36)
1230	500 hPa height/temperature/wind prognosis VT1200 (H + 36)
1245	500 hPa height/temperature/wind prognosis VT0000 (H + 48)
1300	surface pressure prognosis South Atlantic VT1200 (H + 36)
1315	surface pressure prognosis South Atlantic VT0000 (H + 48)
1330	500 hPa pressure prognosis South Atlantic VT1200 (H + 36)
1345	500 hPa pressure prognosis South Atlantic VT0000 (H + 48)
1400	GOES satellite picture full disk (ch 2)
1415	NMC 200 hPa height analysis 0000
1430	open period
1440	RAFC significant weather prognosis FL 250-600 VT0000 (H + 12)
1450	NMC 500 hPa height/isotach prognosis VT1200 (H + 36)
1500	NMC 500 hPa height change VT1200 (H + 24)
1515	NEOC prognosis blend VT1200 (H + 36)
1530	NWS radar summary VT1200
1545	surface pressure analysis South Atlantic 1200
1600	500 hPa pressure analysis South Atlantic 1200
1615	FNOC preliminary surface analysis North Atlantic 1200
1630	tropical surface pressure/wind analysis 1200
1645	open period (tropical warnings)
1700	NMC NGM prognosis VT1200 (H + 24)
1715	GOES satellite picture Gulf of Mexico (ch 14)
1730	Bracknell surface prognosis VT1200 (H + 24)
1745	GOES satellite picture North Atlantic (ch 15)
1800	NMC NGM prognosis VT1200 (H + 48)
1815	NEOC sea height analysis 1200
1830	850 hPa height/temperature/wind analysis 1200
1845	700 hPa height/temperature/wind analysis 1200
1900	500 hPa height/temperature/wind analysis 1200
1915	300 hPa height/temperature/wind analysis 1200
1930	surface pressure/wind prognosis VT0000 (H + 12)
1945	GOES satellite picture Gulf of Mexico (ch 14)
2000	surface pressure/wind prognosis VT1200 (H + 24)
2015	surface pressure/wind prognosis VT1200 (H + 48)
2030	NMC significant weather prognosis VT1200 (H + 24)
2040	NMC significant weather prognosis (H + 36/H + 48)
2050	NEOC prognosis blend VT1200 (H + 84)
2105	significant wave height prognosis VT1200 (H + 24)
2120	preliminary surface pressure analysis 1800
2135	200 hPa height/temperature/wind prognosis VT1200 (H + 24)
2150	open period (tropical warnings)
2200	NEOC high wind/sea warnings VT1200 (H + 12)
2215	850 hPa height/temperature/wind prognosis VT1200 (H + 24)
2230	700 hPa height/temperature/wind prognosis VT1200 (H + 24)
2245	500 hPa height/temperature/wind prognosis VT1200 (H + 24)
2300	400 hPa height/temperature/wind prognosis VT1200 (H + 24)
2315	GOES satellite picture North Atlantic (ch 15)
2330	300 hPa height/temperature/wind prognosis VT1200 (H + 24)
2345	freezing level prognosis VT1200 (H + 24)

USN San Francisco, CA	6453.0	NPG
	9090.0	NPG

(schedule see under USN Pearl Harbour, Hawaii) ☺

12 NAVTEX transmissions on 518 kHz

The Maritime Safety Information (MSI) service is an integral part of the future Global Maritime Distress and Safety System (GMDSS). This fully automated service provides printed navigational and meteorological warnings and messages as well as Search and Rescue (SAR) information to ships. The majority of MSI is addressed to coastal regions, particularly where there is a high density of marine traffic, because these are the circumstances in which most hazards to safety occur.

NAVTEX is the terrestrial part of the MSI system, transmitting navigational and meteorological warnings and urgent information from selected coast stations to ships on 518.0 kHz. It is a time-shared service designed for the transmission of MSI up to a range of about 400 nautical miles, developed especially to provide broadcasts to such waters as described above. The modulation and teleprinter system used is NBDPT SITOR-B; for the complete description of the standard operational and technical characteristics please refer to chapter 7.6 in our RADIOTELETYPE CODE MANUAL.

The equipment fitting programme decided by the 1988 GMDSS Conference prescribes that every cargo ship of 300 gross tons and more, and every passenger ship, must be equipped with a NAVTEX receiver by 01 AUG 1993.

The current NAVTEX schedule follows. Listed are

- call sign;
- name of the station and ITU country/geographical symbol;
- B1 character = transmitter coverage area identifier;
- duration of transmission in minutes;
- times of transmission.

CBA	DGTMMM Antofag. R, CHL	A	10	0000	0400	0800	1200	1600	2000		
CBM	DGTMMM Magallan. R, CHL	E	10	0040	0440	0840	1240	1640	2040		
CBP	DGTMMM P. Montt R, CHL	D	10	0030	0430	0830	1230	1630	2030		
CBT	DGTMMM Talcah. R, CHL	C	10	0020	0420	0820	1220	1620	2020		
CBV	DGTMMM Valparaiso R, CHL	B	5	0100	0700	1300	1900				
CTV	PN Lisbon, POR	R	10	0250	0650	1050	1450	1850	2250		
CWM	UN Montevideo, URG		45	0000	0600	1200	1800				
CWM23	UN Colonia, URG		45	0400	1000	1600	2200				
CWM27	UN La Paloma, URG		45	0200	0800	1400	2000				
CWM30	UN Punta del Este, URG		45	0500	1100	1700	2300				
CWM31	UN Salto, URG		30	0300	0900	1500	2100				
CWM32	UN Laguna del Sauce, URG		30	0500	1100	1700	2300				
FFU	Brest - Le Conquet R, F	F	15	0118	0518	0918	1318	1718	2118		
GCC	Cullercoats R, G	G	15	0048	0448	0848	1248	1648	2048		
GNI	Niton R, G	S	15	0018	0418	0818	1218	1618	2018		
GPK	Portpatrick R, G	O	15	0130	0530	0930	1330	1730	2130		
HZG	Dammam R, ARS	G	15	0605	1205	1805					
HZH	Jeddah R, ARS	H	15	0705	1305	1905					
LGP	Bodoe R, NOR	B	10	0018	0418	0900	1218	1618	2100		
LGQ	Rogaland R, NOR	L	10	0148	0548	0948	1348	1748	2148		
LGV	Vardoe R, NOR	V	10	0300	0700	1100	1500	1900	2300		
L2B	Buenos Aires R, ARG	A	45	0100	0700	1300	1900				
L2I	Bahia Blanca R, ARG	C	45	0300	0900	1500	2100				
L2P	Mar del Plata R, ARG	B	45	0200	0800	1400	2000				
L2W	Comodoro Rivadavia R, ARG	D	45	0400	1000	1600	2200				
L3D	Rio Gallegos R, ARG	E	45	0500	1100	1700	2300				
NMA	USCG Miami, FL, USA	A	30	0000	0600	1200	1800				
NMF	USCG Boston, MA, USA	F	30	0500	1100	1700	2300				
NMG	USCG N. Orleans, LA, USA	G	30	0300	0900	1500	2100				
NMN	USCG Portsmouth, VA, USA	N	30	0130	0730	1330	1930				
NMR	USCG San Juan, PTR	R	30	0420	1020	1620	2220				
OST	Oostende R, BEL	T	7	0248	0648	1048	1448	1848	2248		
PBK	NCG Texel, NLD	P	5	0348	0748	1148	1548	1948	2348		
SAH	Härnösand R, S	H	15	0000	0400	0800	1200	1600	2000		
SDJ	Stockholm R, S	J	15	0330	0730	1130	1530	1930	2330		
SVH	Iraklion R, GRC	H	10	0110	0510	0910	1310	1710	2110		
SVK	Kerkyra R, GRC	K	10	0140	0540	0940	1340	1740	2140		
SVL	Limnos R, GRC	L	10	0150	0550	0950	1350	1750	2150		
TAF	Samsun R, TUR	E		0040	0440	0840	1240	1640	2140		
TAH	Istanbul R, TUR	D		0030	0430	0830	1230	1630	2030		
TAL	Antalya R, TUR	F		0050	0450	0850	1250	1650	2050		
TAN	Izmir R, TUR	I		0120	0520	0920	1320	1720	2120		
TFA	Reykjavik R, ISL	R	12	0318	0718	1118	1518	1918	2318		
UBE 4	Petropavl.-Km. R, FE, URS	P	30	0300	0700	1100	1500	1900	2300		
UDC	Zhdanov R, UK, URS	B	30	0218	0518	0818	1118	1418	1718	2018	2318
UDE	Odessa R, UK, URS	C	30	0018	0318	0618	0918	1218	1518	1818	2118
UFA	Batumi R, GE, URS	A	30	0418	0718	1018	1318	1618	1918	2218	
UFO	Kholmsk R, FE, URS	C	30	0130	0430	0730	1030	1330	1630	1930	2230
UGE	Arkhangelsk R, RU, URS	F	30	0200	0600	1000	1400	1800	2200		
UIK	Vladivostok R, SE, URS	A	30	0000	0400	0800	1200	1600	2000		
UMN	Murmansk R, RU, URS	C	30	0120	0520	0920	1320	1720	2120		
UNC	Tallinn R, ES, URS	U	30	0030	0430	0830	1230	1630	2030		
YUS	Split R, YUG	Y	10	0700	1300	1900					
5BA	Nicosia R, CYP	M	10	0200	0600	1000	1400	1800	2200		

☺

13 Q code

The QAA to QNZ series are reserved for the aeronautical service and the QOA to QQZ series are reserved for the maritime services. The series of groups QRA to QUZ are for use by all services.

Certain Q code abbreviations may be given an affirmative or negative sense by sending YES or NO respectively, immediately following the abbreviation.

The meanings assigned to Q code abbreviations may be amplified or completed by the addition of appropriate other groups, call signs, place names, figures, numbers, etc. It is optional to fill in the blanks shown in parentheses. Any data which is filled in where blanks appear shall be sent in the same order as shown in the text of the following tables.

Q code abbreviations are given the form of a question when followed by a question mark. When an abbreviation is used as a question and is followed by additional or complementary information, the question mark should follow this information.

Q code abbreviations with numbered alternative significations shall be followed by the appropriate figure to indicate the exact meaning intended. This figure shall be sent immediately following the abbreviation.

All times shall be given in Coordinated Universal Time (UTC) unless otherwise indicated in the question or reply.

In the following table, the meaning of a Q code abbreviation is given in the answer, information or advice form.

QAB	You are cleared (*or* ... is cleared) by ... from ... (*place*) to ... (*place*) at flight level/altitude ...
QAF	I am (was) at (over) ... (*place*) (at ... hours) at flight level/altitude ...
QAG	I am arranging my flight in order to arrive over ... (*place*) at ... hours
QAH	I am at flight level/altitude ...
QAI	The essential traffic respecting your aircraft is ...
QAK	There is risk of collision
QAL	I am going to land at ... (*place*)
QAM	Meteorological observation made at ... (*place*) at ... hours was as follows
QAN	The surface wind direction and speed at ... (*place*) at ... hours is ... (*direction*) ... (*speed figures and units*)
QAO	The wind direction and speed at ... (*position or zone/s)* at flight level/ altitude ... is ... (*vertical distance in figures and units*) ... degrees true ... (*speed in figures and units*)
QAP	Listen for me (*or* for ...) on... kHz (... MHz)
QAQ	You are 1. near 2. flying within area ... (*identification of area*)
QAR	You may stop listening on the watch frequency for ... minutes
QAU	I am about to jettison fuel
QAW	I am about to carry out overshoot procedure
QAY	I passed ... (*place*) bearing ... degrees relative to my heading at ... hours
QAZ	I am experiencing communication difficulties through flying in a storm
QBA	The horizontal visibility at ... (*place*) at ... hours is ... (*distance figures and units*)
QBB	The amount, type and height above official aerodrome elevation of the base of the cloud at ... (*place*) at ... hours is ... eighths (... type) at ... (*figures and units*) height above official aerodrome elevation
QBC	The meteorological conditions as observed from my aircraft at ... (*position or zone*) at ... hours at ... (*figures and units*) height above ... (*datum*) are ...
QBD	My fuel endurance is ... (*hours and/or minutes*)
QBE	I am about to wind in my aerial

QBF	I am flying in cloud at flight level/altitude … (and I am ascending (descending) to flight level/altitude …)
QBG	I am flying above cloud and at flight level/altitude …
QBH	I am flying below cloud and at flight level/altitude …
QBI	Flight under IFR is compulsory at … (*place*) (*or* from … to … (*place*))
QBJ	At … hours at … (*position or zone*) the top of the cloud is amount … eighths (… type) at … (*figures and units*) height above … (*datum*)
QBK	I am flying with no cloud in my vicinity and at flight level/altitude …
QBM	Here is the message sent by … at … hours
QBN	I am flying between two layers of cloud and at flight level/altitude …
QBO	Flying under VFR is permissible at … (*place*) which would be suitable for your landing
QBP	I am flying in and out of cloud and at flight level/altitude …
QBS	Ascend (*or* descend) to … (*figures and units*) height above … (*datum*) before encountering instrument meteorological conditions or if visibility falls below … (*figures and units of distance*) and advise
QBT	The runway visual range at … (*place*) at … hours is … (*distance figures and units*)
QBV	I have reached flight level/altitude … (*or* … (*area or place*))
QBX	I have left flight level/altitude … (*or* … (*area or place*))
QBZ	I am reporting my flying conditions in relation to clouds
QCA	I am changing my flight level/altitude from … to …
QCB	Delay is being caused by 1. your transmitting out of turn 2. your slowness in answering 3. lack of your reply to my …
QCE	Expect approach clearance at … hours
QCF	Delay indefinite. Expect approach clearance not later than … hours
QCH	Cleared to taxi to … (*place*)
QCI	I am making a 360-degree turn immediately (turning to the …)
QCS	My reception on … frequency has broken down
QCX	My full call sign is …
QCY	I am working on trailing aerial
QDB	I have sent message … to …
QDF	My D-value at … (*position*) at … (*figures and units*) height above the 1013.2 hectopascal datum is … (*D-value figures and units*) … (*specify plus or minus*)
QDL	I intend to ask you for a series of bearings
QDM	The magnetic heading for you to steer to reach me (*or* …) with no wind was … degrees (at … hours)
QDP	I will accept control (*or* responsibility) of (for) … now (*or* at … hours)
QDR	Your magnetic bearing from me (*or* from …) was … degrees (at … hours)
QDT	I am flying in visual meteorological conditions
QDU	Cancelling my IFR flight
QDV	I am flying in a flight visibility of less than … (*figures and units*) at flight level/altitude …
QEA	You may cross the runway ahead of you
QEB	Taxi as follows at the intersection … (turn left *left* turn right *rite*)
QEC	You may make a 180-degree turn and return down the runway
QED	Follow the pilot vehicle
QEF	I have reached my parking area
QEG	I have left the parking area
QEH	I have moved to the holding position for runway number …
QEJ	I am assuming take-off position for runway number … and am holding
QEK	I am ready for immediate take-off
QEL	You are cleared to take-off (turn as follows after take-off …)
QEM	The condition of the landing surface at … (*place*) is …
QEN	Hold your position
QEO	I have cleared the runway (*or* landing area)
QES	A right-hand circuit is in force at … (*place*)
QFA	The meteorological forecast for … (*flight, route, section of route or zone*) for the period … hours until … hours is …
QFB	The 1. approach 2. runway 3. approach and runway lights are out of order

QFC	At … (*place, position or zone*) the base of the cloud is … eighths … type at … (*figures and units*) height above … (*datum*)
QFD	1. The … visual beacon (at … (*place*)) is in operation 2. I will extinguish the aerodrome visual beacon (at … (*place*)) until your landing is completed
QFE	If you set the subscale of your altimeter to read … hectopascal, the instrument would indicate its height above aerodrome elevation (above treshold, runway number …)
QFF	At … (*place*) the atmospheric pressure converted to mean sea level in accordance with meteorological practice is … (*or* was determined at … hours to be) … hectopascal
QFG	You are overhead
QFH	You may descend below the clouds
QFI	The aerodrome lights are lit
QFM	1. Maintain (*or* fly at) flight level/altitude … 2. I am maintaining flight level/altitude … 3. I intend cruising at flight level/altitude …
QFO	You may land immediately
QFP	The latest information concerning … facility (at … (*place*)) is as follows …
QFQ	The approach and runway lights are lit
QFR	Your landing gear appears damaged
QFS	The radio facility at … (*place*) is in operation (*or* will be in operation in … hours)
QFT	Ice formation has been observed at … (*position or zone*) in the type of … and with an accretion rate of … between … (*figures and units*) heights above … (*datum*)
QFU	The magnetic direction (*or* number) of the runway to be used is …
QFV	The floodlights are switched on
QFW	The length of runway … now in use is … (*figures and units*)
QFX	I am working (*or* am going to work) on a fixed aerial
QFY	The present meteorological landing conditions at … (*place*) are …
QFZ	The aerodrome meteorological forecast for … (*place*) for the period … hours until … hours is …
QGC	There are obstructions to the … of runway …
QGD	There are obstructions on your track … (*figures and units*) height above … (*datum*)
QGE	Your distance to my station (*or* to …) is … (*distance figures and units*)
QGH	You may land using … (*procedure or facility*)
QGK	I am making good a track from … (*place*) on … degrees … (*true or magnetic*)
QGL	You may enter the … (*control area or zone*) at … (*place*)
QGM	Leave the … (*control area or zone*)
QGN	You are cleared to land (at … (*place*))
QGO	Landing is prohibited at … (*place*)
QGP	You are number … to land
QGQ	Hold at … (*place*) at flight level/altitude …, and await further clearance
QGT	Fly for … minutes on a heading that will enable you to maintain a track reciprocal to your present one
QGU	Fly for … minutes on a magnetic heading of … degrees
QGV	I see you at … (*cardinal or quadrantal point of direction*) *or* I can see the aerodrome *or* I see … (aircraft)
QGW	Your landing gear appears to be down and in place
QGZ	Hold on … direction of … facility
QHE	I am on 1. cross-wind leg 2. down-wind leg 3. base leg 4. final leg of approach
QHG	Cleared to enter traffic circuit at flight level/altitude …
QHH	I am making an emergency landing
QHI	I am (*or* … is) 1. waterborne 2. on land at … hours
QHQ	I am making a … approach
QHZ	Circle the aerodrome (*or* go around)
QIC	I will establish communication with … radio station on … kHz (*or* … MHz) now (*or* at … hours)
QIF	… is using … kHz (*or* … MHz)

QJA	Your 1. tape 2. mark and space is reversed
QJB	I will use 1. radio 2. cable 3. telegraph 4. teletypewriter 5. telephone 6. receiver 7. transmitter 8. reperforator
QJC	I will check my 1. transmitter distributor 2. auto-head 3. perforator 4. reperforator 5. printer 6. printer motor 7. keyboard 8. antenna system
QJD	You are transmitting 1. in letters 2. in figures
QJE	Your frequency shift is 1. too wide 2. too narrow (by ... cycles) 3. correct
QJF	My signal as checked by monitor ... is satisfactory 1. locally 2. as radiated
QJG	Revert to automatic relay
QJH	Run 1. your test tape 2. a test sentence
QJI	I am transmitting a continuous 1. mark 2. space
QJK	I am receiving 1. a continuous mark 2. a continuous space 3. a mark bias 4. a space bias
QKC	The sea conditions (at ... position) ... 1. permit alighting but not take-off 2. render alighting extremely hazardous
QKF	You may expect to be relieved at ... hours (by 1. aircraft ... (*identification*) (type ...) 2. vessel whose call sign is ... (*call sign*) (*and/or* whose name is ... (*name*))
QKG	Relief will take place when ... (*identification*) establishes 1. visual 2. communications contact with survivors
QKH	The parallel sweep (track) search is being (*or* to be) conducted 1. with direction of sweeps ... degrees ... (*true or magnetic*) 2. with ... (*distance figures and units*) separation between sweeps 3. at flight level/altitude ...
QKN	Aircraft plotted (believed to be you) in position ... on track ... degrees at ... hours
QKO	In the operation (... (*identification*)), the following units are (*or* will be) taking part ... (*name of units*)
QKP	The search pattern is 1. parallel sweep 2. square search 3. creeping line ahead 4. track crawl 5. contour search 6. combined search by aircraft and ship 7. ... (*specify*)
QLB	I have monitored ... station and report (*briefly*) as follows ...
QLH	I will know key simultaneously on ... frequency and ... frequency
QLV	The ... radio facility is still required

QMH	Shift to transmit and receive on ... kHz (*or* ... MHz); if communication is not established within 5 minutes, revert to present frequency
QMI	The vertical distribution of cloud as observed from my aircraft at ... hours at ... (*position or zone*) is: lowest layer observed ... eighths (... type) with base of ... (*figures and units*) and tops of ... (*figures and units*) height above ... (*datum*)
QMU	The surface temperature at ... (*place*) at ... hours is ... degrees and the dew point temperature at that time and place is ... degrees
QMW	At ... (*position or zone*) the zero Celsius isotherm(s) is (are) at flight level(s)/altitude(s) ...
QMX	At ... (*position or zone*) at ... hours the air temperature is ... (*degrees and units*) at flight level/altitude ...
QMZ	The following amendment(s) should be made to the flight forecast ...
QNE	On landing at ... (*place*) at ... hours, with your subscale being set to 1013.2 hectopascal, your altimeter will indicate ... (*figures and units*)
QNH	If you set the subscale of your altimeter to read ... hectopascal, the instrument would indicate its elevation if your aircraft were on the ground at my station at ... hours
QNI	Turbulence has been observed at ... (*position or zone*) with an intensity of ... between ... (*figures and units*) and ... (*figures and units*) heights above ... (*datum*)
QNO	I am not equipped to give the information (*or* provide the facility) requested
QNR	I am approaching my point of no return
QNT	The maximum speed of the surface wind at ... (*place*) at ... hours is ... (*speed figures and units*)
QNY	The present weather and intensity thereof at ... (*place, position or zone*) at ... hours is ...
QOA	I can communicate by radiotelegraphy (500 kHz)
QOB	I can communicate by radiotelephony (2182 kHz)
QOC	I can communicate by radiotelephony (channel 16 - frequency 156.80 MHz)
QOD	I can communicate with you in 0. Dutch 1. English 2. French 3. German 4. Greek 5. Italian 6. Japanese 7. Norwegian 8. Russian 9. Spanish
QOE	I have received the safety signal sent by ... (*name and/or call sign*)
QOF	The quality of your signal is 1. not commercial 2. marginally commercial 3. commercial
QOG	I have ... tapes to send
QOH	Send a phasing signal for ... seconds
QOI	Send your tape
QOJ	I am listening on ... kHz (*or* ... MHz) for signals of emergency position-indicating radiobeacons
QOK	I have received the signals of an emergency position-indicating radiobeacon on ... kHz (*or* ... MHz)
QOL	My vessel is fitted for the reception of selective calls. My selective call number or signal is ...
QOM	My vessel can be reached by a selective call on the following frequency/ies ... (*periods of time to be added if necessary*)
QOO	I can send on any working frequency
QOT	I hear your call; the approximate delay is ... minutes
QRA	The name of my station is ...
QRB	The approximate distance between our stations is ... nautical miles (*or* ... kilometres)
QRC	The accounts for charges of my station are settled by the private enterprise ... (*or* state administration)
QRD	I am bound for ... from ...
QRE	My estimated time of arrival at ... (*or* over ...) (*place*) is ... hours
QRF	I am returning to ... (*place*)
QRG	Your exact frequency (*or* that of ...) is ... kHz (*or* ... MHz)

QRH	Your frequency varies
QRI	The tone of your transmission is 1. good 2. variable 3. bad
QRJ	I have ... radiotelephone calls to book
QRK	The intelligibility of your signals (*or* those of ...) is 1. bad 2. poor 3. fair 4. good 5. excellent
QRL	I am busy (*or* I am busy with ...). Please do not interfere
QRM	I am being interfered with (1. nil 2. slightly 3. moderately 4. severely 5. extremely)
QRN	I am troubled by static (1. nil 2. slightly 3. moderately 4. severely 5. extremely)
QRO	Increase transmitter power
QRP	Decrease transmitter power
QRQ	Send faster (... words per minute)
QRR	I am ready for automatic operation. Send at ... words per minute
QRS	Send more slowly (... words per minute)
QRT	Stop sending
QRU	I have nothing for you
QRV	I am ready
QRW	Please inform ... that I am calling him on ... kHz (*or* ... MHz)
QRX	I will call you again at ... hours (on ... kHz (*or* ... MHz))
QRY	Your turn is number ... (*or according to any other indication*)
QRZ	You are being called by ... (on ... kHz (*or* ... MHz))
QSA	The strength of your signal (*or* those of ...) is 1. scarcely perceptible 2. weak 3. fairly good 4. good 5. very good
QSB	Your signals are fading
QSC	I am a cargo vessel
QSD	Your keying is defective
QSE	The estimated drift of the survival craft is ... (*figures and units*)
QSF	I have effected rescue and am proceeding to ... base (with ... persons injured requiring ambulance)
QSG	Send ... telegrams at a time
QSH	I am able to home on my D/F equipment (on station ...)
QSI	I have been unable to break in on your transmission
QSJ	The charge to be collected to ... including my internal charge is ... francs
QSK	I can hear you between my signals; break in on my transmission
QSL	I am acknowledging receipt
QSM	Repeat the last telegram which you sent me (*or* telegram(s) number(s) ...)
QSN	I did hear you (*or* ... (*call sign*)) on ... kHz (*or* ... MHz)
QSO	I can communicate with ... direct (*or* by relay through ...)
QSP	I will relay to ... free of charge
QSQ	I have a doctor on board (*or* ... (*name of person*) is on board)
QSR	Repeat your call on the calling frequency; did not hear you (*or* have interference)
QSS	I will use the working frequency ... kHz (*normally only the last three figures of the frequency need be given*)
QSU	Send or reply on this frequency (*or* on ... kHz (*or* ... MHz)) (with emissions of class ...)
QSV	Send a series of Vs on this frequency (*or* ... kHz (*or* ... MHz))

QSW	I am going to send on this frequency (*or* on … kHz (*or* … MHz)) (with emissions of class …)
QSX	I am listening to … (*call sign(s)* on … kHz (*or* … MHz))
QSY	Change to transmission on another frequency (*or* on … kHz (*or* … MHz))
QSZ	Send each word or group twice (*or* … times)
QTA	Cancel telegram number …
QTB	I do not agree with your counting of words; I will repeat the first letter or digit of each word or group
QTC	I have … telegrams for your (*or* for …)
QTD	… (*identification*) has recovered 1. … (*number*) survivors 2. wreckage 3. … (*number*) bodies
QTE	Your true bearing from me is … degrees at … hours
QTF	The position of your station according to the bearings taken by the D/F stations which I control was … latitude, … longitude (*or other indication of position*), class … at … hours
QTG	I am going to send two dashes of ten seconds each followed by my call sign (repeated … times) (on … kHz (*or* … MHz))
QTH	My position is … latitude, … longitude (*or according to any other indication*)
QTI	My true track is … degrees
QTJ	My speed is … knots (*or* … kilometres per hour *or* … statute miles per hour)
QTK	The speed of my aircraft in relation to the surface of the Earth is … knots (*or* … kilometres per hour *or* … statute miles per hour)
QTL	My true heading is … degrees
QTM	My magnetic heading is … degrees
QTN	I departed from … (*place*) at … hours
QTO	I have left dock (*or* port) *or* I am airborne
QTP	I am going to enter dock (*or* port) *or* I am going to alight (*or* land)
QTQ	I am going to communicate with your station by means of the International Code of Signals
QTR	The correct time is … hours
QTS	I will send my call sign for tuning purposes or so that my frequency may be measured now (*or* at … hours) on … kHz (*or* … MHz)
QTT	The identification signal which follows is superimposed to another transmission
QTU	My station is open from … to … hours
QTV	Stand guard for me on the frequency of … kHz (*or* … MHz) (from … to … hours)
QTW	Survivors are in … condition and urgently need …
QTX	I will keep my station open for further communication with you until further notice (*or* until … hours)
QTY	I am proceeding to the position of incident and expect to arrive at … hours (on … (*date*))
QTZ	I am continuing the search for … (aircraft, ship, survival craft, survivors or wreckage)
QUA	Here is news of … (*call sign*)
QUB	Here is the information requested: …
QUC	The number (*or other indication*) of the last message I received from you (*or* from … (*call sign*)) is …
QUD	I have received the urgency signal sent by … (*call sign of mobile station*) at … hours
QUE	I can use telephony in … (*language*) on … kHz (or … MHz)
QUF	I have received the distress signal sent by … (*call sign of mobile station*) at … hours
QUG	I am forced to alight (*or* land) immediately
QUH	The present barometric pressure at sea level is … (*units*)
QUI	My navigation lights are working
QUJ	The true track to reach me (*or* …) is … degrees at … hours
QUK	The sea at … (*place or coordinates*) is …
QUL	The swell at … (*place or coordinates*) is …
QUM	Normal working may be resumed
QUN	My position, true course and speed are …
QUO	Please search for 1. aircraft 2. ship 3. survival craft in the vicinity of … latitude, … longitude (*or according to any other indication*)

QUP	My position is indicated by 1. searchlight 2. black smoke trail 3. pyrotechnic lights
QUQ	Please train your searchlight on a cloud, occulting if possible and, if my aircraft is seen or heard, deflect the beam up wind and on the water (*or* land) to facilitate my landing
QUR	Survivors 1. are in possession of survival equipment dropped by ... 2. have been picked up by rescue vessel 3. have been reached by ground rescue party
QUS	Have sighted 1. survivors in water 2. survivors on rafts 3. wreckage in position ... latitude, ... longitude (*or according to any other indication*)
QUT	Position of incident is marked by 1. flame or smoke float 2. sea marker 3. sea marker dyce 4. ... (*specify other marking*)
QUU	Home ship or aircraft ... (*call sign*) 1. to your position by transmitting your call sign and long dashes on ... kHz (*or* ... MHz) 2. by transmitting on ... kHz (*or* ... MHz) true track to reach you
QUW	I am in the ... (*designation*) search area
QUX	I have the following navigational warning(s) or gale warning(s) in force: ...
QUY	Position of survival craft was marked at ... hours by 1. flame or smoke float 2. sea marker 3. sea marker dyce 4. ... (*specify other marking*)
QUZ	Distress phase still in force; restricted working may be resumed ☺

14 Z code

This code, formerly developed as a service code of Cable & Wireless Ltd, is used nowadays for overall ratings in radiotelegraphy and radiotelephony.

In the following table, the meaning of a Z code abbreviation is given in the answer, information or advice form, if different forms exist. Z codes printed *in italics* indicate military usage. When numbers 1-5 follow the Z code abbreviation, they are to be keyed according to the following scale:

1. Very slight
2. Slight
3. Moderate
4. Severe
5. Extreme

ZAA	You are not observing circuit discipline	
ZAB	Your speed key is improperly adjusted	
ZAC	Advise (*call sign of*) the frequency you are reading ... running dual for you	
ZAC	Cease using speed key	
ZAD	Signal	1. not understood 2. not held
ZAE	Unable to receive you, try via ...	
ZAF	Reroute the circuit by patching	
ZAH	Unable to relay, we file	
ZAI	Run (*foxes, ry's, mk, etc.*)	
ZAJ	Have been unable to break you	
ZAK	Transmission interrupted at ... hours	
ZAL	Alter your wavelength	
ZAL	Closing down due to ...	
ZAN	We can receive absolutely nothing	
ZAN	Only transmit telegrams with precedence ... (Z, Y, O, P, R, M) or higher	
ZAO	Can't understand voice, use telegraphy	
ZAP	Acknowledge, please	
ZAP	Use traffic	1. simplex 2. duplex 3. diplex 4. multiplex 5. SSB ISB
ZAQ	The last word	1. I received 2. transmitted was ...
ZAR	Revert to automatic relay	
ZAS	Rerun tapes on ... since ...	
ZAT	Punching tape for transmission	
ZAV	Send blind until advised	
ZAX	You are causing interference	1. listen before transmitting 2. by ignoring my wait signal 3. by transmitting simultaneously with ... 4. by answering too slowly 5. by answering too slowly my call to you. You're causing a delay 6. by not answering on your turn
ZAY	Send on ... kHz. Will confirm later	
ZBA	Cause of delay is ...	
ZBB	Make ... copies of the following message	
ZBD	Following was sent ... hours	

ZBE	Retransmit message ... to ... for 1. action 2. information 3. comment
ZBF	Use large message formula for the following telegram
ZBG	You are sending upper case
ZBH	Make call before transmitting traffic
ZBI	Listen for telephony
ZBL	Do not use break-in
ZBM	Put ... (*speed opr.*) this frequency
ZBN	Break and go ahead with new slip
ZBN	Your tape reversed
ZBO	I have traffic
ZBP	1. Characters indistinct 2. Spacing bad
ZBQ	When and on what frequency was message received ?
ZBR	Break circuit, retuning
ZBR	Transmit your message via the 1. R (receipt) 2. F (not answer) 3. I (interruption) method 4. G (read back)
ZBS	Your signals blurring
ZBT	Count ... as ... groups
ZBU	Report when in communication with ...
ZBV	Answer on ... MHz
ZBW	I (*or* station ...) changes for transmission on ... kHz
ZBX	I (*or* station ...) changes for reception to ... kHz
ZBY	Break, go back yard (*or* metre)
ZCA	Circuit seriously affected. All signals or channels from ... unreadable. Please try to supply us with a readable signal or any frequency of that circuit for contact
ZCB	Circuit interrupted (*or* broken). Signals unheard. Please cover and supply any ... heard
ZCC	Collate code
ZCD	Your collation is different
ZCF	Check your center frequency, please
ZCI	Circuit interrupted. We are advised that ... running and available. Please cover also and supply the signal which first becomes usable.
ZCK	Check keying
ZCL	Transmit call letters intelligibly (international morse code, at speed not exceeding 24 words per minute, or by voice) for station identification
ZCO	Your collation omitted
ZCP	Local receiving conditions poor; please increase to maximum
ZCR	Now using concentrator. Please make warning signals
ZCS	Cease sending
ZCT	Send code twice
ZCW	Are you in direct communication with ... ?
ZDA	Here formal message, priority ...
ZDB	Accelerate answering my 1. preceded Z code 2. requests for repeat and correction 3. signal serving message
ZDC	We are diagnosing circuit faults, and will advise shortly
ZDC	Last message transmitted requests execution signal
ZDE	Message undelivered; 1. will keep trying 2. advise disposal 3. cancelling 4. btr ads
ZDE	Message ... undelivered
ZDF	Your frequency is drifting to degree indicated
ZDF	Message ... received by addressee
ZDG	Accuracy of following doubtful
ZDH	Your dots are too heavy (long), adjust lighter
ZDJ	I have a message of ... groups for you

ZDK	The following is a repeat as requested
ZDL	Your dots are too light (short), adjust heavier
ZDL	Approval 1. is omitted 2. differs in its contents
ZDM	Your dots missing
ZDM	This is a multiple-addressee message
ZDN	Report disposal of message …
ZDO	I have been unable to transmit the message to …
ZDQ	Message … relayed to … at …
ZDS	Message just transmitted erroneous. Correct version is …
ZDT	Following transmitters running dual
ZDT	Don't transmit exercise messages until advised
ZDV	Your dots varying length, please remedy
ZDV	Private message received for …, advise
ZDY	No private messages until ordered
ZEC	Message 1. not received 2. undelivrable
ZED	We are experiencing drop-outs to degree indicated
ZEF	We are experiencing fill-ins to degree indicated
ZEG	We are experiencing garbles to degree indicated
ZEH	1. Correctness of service part 2. Text parts is doubtful. Approval will be given after receipt 3. Groups … till …
ZEI	Accuracy of heading doubtful
ZEK	No answer required
ZEL	This message is correction to …
ZEN	Drop copy to unit having same routing indicator as originator
ZEN	This message is classified
ZEO	Parts marked ZEP coming later
ZES	Your message … received 1. not complete, 2. distorted, I request retransmission
ZEU	Exercise (drill message) coming now
ZEV	This is an acknowledgement of message …
ZEX	This is a booking message, it may be delivered to addressees for who you are responsable
ZFA	Failing auto
ZFA	Message intercepted or copied blind
ZFB	Signals are fading badly
ZFB	Pass this message to …
ZFC	Check your FSK shift, please
ZFD	Depth of fading of your signal is as indicated
ZFD	This message is a suspected duplicate
ZFF	Please observe and furnish FRAME code reports on … (*call letters and frequency in khz*)
ZFF	Advise when message received by …
ZFH	Message by … for 1. action 2. information 3. comment
ZFI	Reply to message? There is no reply
ZFK	Revert to FSK
ZFL	The following … was addressed to you between serial number … and … of this network
ZFO	Signals faded out
ZFQ	Frequency shift of your signal is … Hz
ZFR	Rapidity of fading of your signal is as indicated
ZFR	Cancel transmission
ZFS	Signals are fading slightly
ZGA	The call sign assigned to you is …
ZGB	Answer in alphabetical numerical order
ZGC	Answer in alphabetical numerical order and transmit your call sign … times
ZGE	Transmit your call sign … times
ZGF	… signals good for … words per minute
ZGF	Make call signs more distinctly

ZGG	Call sign of … is …
ZGI	… has called you on … kHz
ZGJ	I'l call you back at … hours on … kHz
ZGK	Call me back at … hours on … kHz
ZGL	… will answer for me or for …
ZGM	I was not able to contact you since … hours
ZGN	Nothing was heard from you since … hours
ZGO	Your number is …, answer after …
ZGP	Please give priority
ZGP	Answer each station calling me on … kHz
ZGS	Your signals getting stronger
ZGW	Your signals getting weaker
ZHA	How are your conditions for auto reception?
ZHA	Lower your frequency to avoid interference
ZHB	Raise your frequency to avoid interference
ZHC	How are your receiving conditions?
ZHM	Indicating reception of harmonic radiation from some transmitter, followed by indication of the order of the harmonic followed by the microvolt input to receiver of the radiation
ZHS	Send high speed auto … words per minute
ZHY	We are holding your …
ZIA	This message is sent outside the normal serial numbers
ZIB	Correct serial number of message …
ZIC	The last message sent by me was …
ZII	The last message received by me was …
ZIM	Interruption caused by industrial or medical interference of the degree indicated
ZIP	Increase power
ZIP	Postal address is …
ZIR	Your transmitter has strong idle radiation
ZIS	Intensity of atmospheric interference on … of severity indicated
ZJF	Your frequency is jumping to degree indicated
ZJJ	Wire via the double-flash method
ZJO	Compare each group of text
ZKA	Who is controlling station?
ZKB	Permission necessary before transmitting messages
ZKC	Replace this Z code by the call sign or code name of the control station
ZKD	Take control of net …
ZKE	I (*or* …) report(s) into circuit (net)
ZKF	Station leaves net temporarily
ZKI	Listen on … kHz 1. continuously 2. till new order
ZKJ	1. Close your station 2. I close my station until … hours
ZKL	Resume radio watch on … hours
ZKM	Keep radio watch on … kHz
ZKO	Revert to on/off keying
ZKP	… has radio watch for station … on … kHz
ZKQ	Say when ready to resume
ZKR	I am maintaining a watch on … kHz (*or* … MHz)
ZKS	What station keeps watch on …?
ZKW	The key weight of your signal is … (*expressed in %)*
ZLB	Give long breaks, please
ZLD	We are getting long dash from you
ZLL	Distorted landline control signals apparently caused by control wire pickup
ZLP	Low (minimum) power
ZLS	We are suffering from a lightning storm
ZMH	Magnetic activity
ZMO	Stand by a moment
ZMP	Mispunch *or* perforator failures
ZMQ	Stand by for …

ZMU	Multipath effect causing ... signals to appear heavy. (*followed by indication of percentage of marking if able to estimate*)
ZNB	We do not get your breaks, we send twice
ZNC	No communication with ...
ZNC	All transmissions on 1. all radionets 2. this radionet must be confirmed 3. ...
ZND	Your certification is incorrect; 1. verify your code book 2. check confirmation of last message
ZNE	The last transmission on this radionet 1. ... 2. by station ... was authentic
ZNG	Receiving conditions no good for code
ZNI	No call letters (identification) heard
ZNJ	Message may be forwarded by radio or unsafe liaisons
ZNL	Questions concerning the text of this message must be directed to the encoding officer of station ...
ZNM	Check the encoding message and repeat
ZNN	All clear for traffic
ZNO	Not on the air
ZNR	Not received
ZNS	Here new slip
ZOA	We chave checked ... (*transmitter call sign*) signals are radiating on air okay
ZOC	Relay to your sub-stations
ZOD	We are observing ... and will make transition when as good or better
ZOD	Act as a radio link between me and ...
ZOE	Can you accept message? Give me message
ZOF	Relay this message
ZOG	Transmit this message to station ... 1. for action 2. for information
ZOH	What traffic have you on hand?
ZOH	Transmit this message to ... on ... kHz via the ... method
ZOJ	I can't forward this message because 1. the call sign of the code name is not encoded 2. the contents are not encoded
ZOK	We are receiving okay
ZOK	Relay this message via ...
ZOL	Okay on line
ZOM	Mail delivery possible
ZOR	Transmit only reversals
ZOU	Give instructions on routing traffic
ZOZ	Obtain retransmission of message ...
ZPA	Printer line advance (feed) not received
ZPA	Your speech distorted
ZPC	Printer carriage return not received
ZPC	Signals fading to degree indicated
ZPE	Punch everything
ZPE	I transmit with maximum power
ZPF	Printer motor fast
ZPF	Readibility is as indicated
ZPG	Signal strength is as indicated
ZPO	Send plain once
ZPP	Punch plain only
ZPR	Re-run slip at present running
ZPS	Printer motor slow
ZPT	Send plain twice
ZRA	Reversed auto tape
ZRA	Your frequency is 1. correct 2. ... kHz higher 3. ... kHz lower
ZRB	Your relayed signal is bad; please adjust your received signal
ZRB	Check your frequency on this circuit

ZRC	Can you receive code?
ZRC	Adjust your frequency on the 1. correct frequency 2. frequency of my transmitter
ZRE	Hear you best on ... kHz
ZRF	Send tuning signals on present frequency
ZRG	Changing frequency will be necessary on ... hours
ZRK	Reversed keying
ZRL	Re-run slip before one now running
ZRM	Please remove modulation from ...
ZRM	I receive ... (USB, LSB, ISBs)
ZRN	Rough note
ZRO	Are you receiving okay?
ZRR	Run reversals
ZRS	Re-run message number ... (*or* slip containing message number ...)
ZRT	Revert to traffic
ZRY	Run test slip, please
ZSF	Send faster
ZSH	Static heavy here
ZSI	Please furnish signal intensity of ... (*microvolts input to receiver*)
ZSM	Microvolt input to receiver is ...
ZSN	Please observe and furnish SINPO code reports on ... (*call letters and frequency in kHz*)
ZSO	Transmit slips once
ZSR	Your signals strong readable
ZSS	Send slower
ZST	Transmit slips twice
ZSU	Your signals are unreadable
ZSV	Your speed varying
ZTA	Transmit by auto
ZTD	Please use ...
ZTE	I am not able to use ...
ZTG	1. radiotelegraphy 2. modulated radiotelegraphy 3. radiotelephony transmission 4. radioteletype 5. radiobearing
ZTH	Transmit by hand
ZTH	1. FM 2. AM 3. PM transmission 4. FSK 5. AJ
ZTI	Transmitter temporarily interrupted
ZTI	1. Receiver 2. Transmitter 3. Power supply 4. Antenna system
ZTJ	Stop using ...
ZUA	Our conditions unsuitable for undulator or automatic recording
ZUA	Timing signal will be transmitted
ZUB	We have been unable to break you
ZUB	At ... hours
ZUC	Unable to comply. Will do so at ...
ZUE	Affirmative (yes)
ZUG	Negative (no)
ZUH	Unable to comply
ZUI	Your attention is drawn to ...
ZUJ	Wait. Stand by
ZUK	... is ready for keying with ...
ZVB	Varying bias
ZVF	Signals varying in frequency

ZVP	Send V's please
ZVR	Pass at once to sub-stations
ZVS	Signals varying in intensity
ZWB	Name of operator on watch
ZWC	Wipers or clicks here
ZWF	Inexact
ZWG	Correct
ZWL	Except ...
ZWO	Send words once
ZWR	Your signal weak but readable
ZWS	Wavelength (frequency) is swinging to degree indicated
ZWT	Send words twice
ZXA	We are adjusting (*or* please adjust) to receive speeds ...
ZXC	Pictures ... conditionally accepted. Will advise
ZXD	Send dashes, please
ZXF	You are floating fast
ZXH	Your limits are high. Please reduce ... Hz
ZXJ	You are jumping out of phase
ZXK	Is your synchronizing correct?
ZXL	Your limits are low. Please increase ... Hz
ZXO	Last run defaced due to ...
ZXP	Go ahead with pictures
ZXS	You are floating slow
ZXV	Your modulation is varying
ZYA	Cease traffic on all channels; send A's on A channel for lineup
ZYC	Cycling on automatic error correction with 7-unit errors stored at your end
ZYK	Your keying on ... channel affected; please check
ZYN	Reduce the bias
ZYO	Message originated with mobile units
ZYP	Change from multiplex to single printer
ZYR	Please put ... on multiplex revolutions
ZYS	The speed of transmission is ...
ZYT	Check your thyratrons
ZYT	Forward this message without service action
ZYX	Please revert to multiplex revolutions ... channels
ZZA	Tell name of operator who has transmitted last message (*or* message ...)
ZZF	Incorrect
ZZG	Correct
ZZH	Try again
ZZN	Message is a drill message for 1. beginning operators 2. advanced operators 3. operators on watch
ZZO	Beginning operator ☺

15 Phonetic alphabet and figure code

When it is necessary to spell out call signs, service abbreviations and words, the following letter spelling table shall be used:

letter to be transmitted	code word to be used	spoken as[1]
A	Alfa	AL fah
B	Bravo	BRAH voh
C	Charlie	CHAR lee / SHAR lee
D	Delta	DELL tah
E	Echo	ECK oh
F	Foxtrott	FOKS trot
G	Golf	golf
H	Hotel	hoh TELL
I	India	IN dee ah
J	Juliett	JEW lee ETT
K	Kilo	KEY loh
L	Lima	LEE mah
M	Mike	mike
N	November	no VEM ber
O	Oscar	OSS cah
P	Papa	pah PAH
Q	Quebec	keh BECK
R	Romeo	ROW me oh
S	Sierra	see AIR rah
T	Tango	TANG go
U	Uniform	YOU nee form / OO nee form
V	Victor	VIK tah
W	Whiskey	WISS key
X	X-ray	ECKS RAY
Y	Yankee	YANG key
Z	Zulu	ZOO loo

[1] The syllables to be emphasized are written in capitals

When it is necessary to spell out figures or marks, the following table shall be used:

figure or mark to be transmitted	code word to be used	spoken as[2]
0	Nadazero	nah-dah-zay-roh
1	Unaone	oo-nah-wun
2	Bissotwo	bees-soh-too
3	Terrathree	tay-rah-tree
4	Kartefour	kar-tay-fower
5	Pantafive	pan-tah-five
6	Soxisix	sok-see-six
7	Setteseven	say-tay-seven
8	Oktoeight	ok-toh-ait
9	Novenine	no-vay-niner
decimal point	Decimal	day-see-mal
full stop	Stop	stop

[2] Each syllable should be equally emphasized

However, stations of the same country, when communicating between themselves, may use any other table recognized by their administration. ☺

16 SINPO and SINPFEMO codes

SINPO signal reporting code

	S	I	N	P	O
		degrading effect of			
rating scale	signal strength	interference	noise	propagation disturbance	overall rating
5	excellent	nil	nil	nil	excellent
4	good	slight	slight	slight	good
3	fair	moderate	moderate	moderate	fair
2	poor	severe	severe	severe	poor
1	barely audible	extreme	extreme	extreme	unusable

SINPFEMO signal reporting code

	S	I	N	P	F	E	M	O
		degrading effect of				modulation		
rating scale	signal strength	interference	noise	propagation disturbance	frequency of fading	quality	depth	overall rating
5	excellent	nil	nil	nil	nil	excellent	maximum	excellent
4	good	slight	slight	slight	slow	good	good	good
3	fair	moderate	moderate	moderate	fair	fair	fair	fair
2	poor	severe	severe	severe	fast	poor	poor or nil	poor
1	barely audible	extreme	extreme	extreme	very fast	very poor	continuously overmodulated	unusable

Special remarks:

- A signal report shall consist of the code word SINPO or SINPFEMO followed by a group of five or eight numerals, rating, respectively, the five or eight characteristics of the particular signal code.
- The letter **X** shall be used instead of a numeral for characteristics not rated.
- Although the code word SINPFEMO is intended for radiotelephony, it may be used for radiotelegraphy.
- The overall rating for radiotelegraphy shall be as indicated in Tables I and II:

Table I	overall rating	mechanized operations
	5 excellent	4-channel time-division multiplex
	4 good	2-channel time-division multiplex
	3 fair	marginal single start-stop printer
	2 poor	BKs, XQs and call signs readable
	1 unusable	unreadable

Table II	overall rating	morse operation
	5 excellent	high speed
	4 good	100 wpm
	3 fair	50 wpm
	2 poor	BKs, XQs and call signs readable
	1 unusable	unreadable

- The overall rating for telephony shall be as indicated in Table III:

Table III	overall rating	operating condition	quality
	5 excellent	signal quality unaffected	commercial
	4 good	signal quality slightly affected	commercial
	3 fair	signal quality seriously affected; channel usable by operators or by experienced subscribers	marginally commercial
	2 poor	channel just usable by operators	not commercial
	1 unusable	channel unusable by operators	not commercial ☺

17 Designation of emissions

RR 264 Emissions shall be designated according to their necessary bandwidth and their classification.

RR 265 Examples of emissions designated in accordance with this Article are given in Appendix 6, Part B. Further examples may appear in the latest CCIR Recommendations. These examples may also be published in the Preface to the International Frequency List.

Section I - Necessary bandwidth

RR 266 The necessary bandwidth, as defined in RR 146 and determined in accordance with Appendix 6, Part B, shall be expressed by three numerals and one letter. The letter occupies the position of the decimal point and represents the unit of bandwidth. The first character shall be neither zero nor K, M or G.

RR 267 Necessary bandwidths:
between 0.001 and 999 Hz shall be expressed in Hz (letter H);
between 1.00 and 999 kHz shall be expressed in kHz (letter K);
between 1.00 and 999 MHz shall be expressed in MHz (letter M);
between 1.00 and 999 GHz shall be expressed in GHz (letter G).

Examples:
0.002 Hz = H002
0.1 Hz = H100
25.3 Hz = 25H3
400 Hz = 400H
2.4 kHz = 2K40
6 kHz = 6K00
12.5 kHz = 12K5
180.4 kHz = 180K
180.5 kHz = 181K
180.7 kHz = 181K
1.25 MHz = 1M25
2 MHz = 2M00
10 MHz = 10M0
202 MHz = 202M
5.65 GHz = 5G65

Section II - Classification

RR 268 The class of emission is a set of characteristics conforming to RR 269.

RR 269 Emissions shall be classified and symbolized according to their basic characteristics as given in RR 270 and any optional additional characteristics as provided for in Appendix 6, Part A.

RR 270 The basic characteristics (see RRs 271, 272, 273) are:
(1) first symbol - type of modulation of the main carrier;
(2) second symbol - nature of signal(s) modulating the main carrier;
(3) third symbol - type of information to be transmitted.
Modulation used only for short periods and for incidental purposes (such as, in many cases, for identification and calling) may be ignored provided that the necessary bandwidth as indicated is not thereby increased.

RR 271 **First symbol - type of modulation of the main carrier**

Emission of an unmodulated carrier	N
Emission in which the main carrier is amplitude-modulated (including cases where sub-carriers are angle-modulated)	
• Double-sideband	A
• Single-sideband, full carrier	H
• Single-sideband, reduced or variable level carrier	R
• Single-sideband, suppressed carrier	J
• Independent sidebands	B
• Vestigial sideband	C
Emission in which the main carrier is angle-modulated	
• Frequency modulation	F
• Phase modulation	G
Emission in which the main carrier is amplitude- and angle-modulated either simultaneously or in a pre-established sequence	D

Emission of pulses (emissions where the main carrier is directly modulated by a signal which has been coded into quantized form (e.g. pulse code modulation) should be designated under amplitude modulation or angle modulation above)	
• Sequence of unmodulated pulses	**P**
A sequence of pulses	
• modulated in amplitude	**K**
• modulated in width/duration	**L**
• modulated in position/phase	**M**
• in which the carrier is angle-modulated during the period of the pulse	**Q**
• which is a combination of the foregoing or is produced by other means	**V**
Cases not covered above, in which an emission consists of the main carrier modulated, either simultaneously or in a pre-established sequence, in a combination of two or more of the following modes: amplitude, angle, pulse	**W**
Cases not otherwise covered	**X**

RR 272 **Second symbol - nature of signal(s) modulating the main carrier**

No modulating signal	**0**
A single channel containing quantized or digital information without the use of a modulating sub-carrier (this excludes time-division multiplex)	**1**
A single channel containing quantized or digital information with the use of a modulating sub-carrier (this excludes time-division multiplex)	**2**
A single channel containing analogue information	**3**
Two or more channels containing quantized or digital information	**7**
Two or more channels containing analogue information	**8**
Composite system with one or more channels containing quantized or digital information, together with one or more channels containing analogue information	**9**
Cases not otherwise covered	**X**

RR 273 **Third symbol - type of information to be transmitted** (in this context the word "information" does not include information of a constant, unvarying nature such as is provided by standard frequency emissions, continuous wave and pulse radars, etc.)

No information transmitted	**N**
Telegraphy - for aural reception	**A**
Telegraphy - for automatic reception	**B**
Facsimile	**C**
Data transmission, telemetry, telecommand	**D**
Telephony (including sound broadcasting)	**E**
Television (video)	**F**
Combination of the above	**W**
Cases not otherwise covered	**X**

Appendix 6 Part A - Additional characteristics for the classification of emissions

For a more complete description of an emission, two optional additional characteristics should be added. These are: fourth symbol - details of signal(s), and fifth symbol - nature of multiplexing. Where the fourth or the fifth symbol is not used this should be indicated by a dash where each symbol would otherwise appear.

1. **Fourth symbol - Details of signal(s)**

Two-condition code with elements of differing numbers and/or durations	**A**
Two-condition code with elements of the same number and duration without error-correction	**B**
Two-condition code with elements of the same number and duration with error-correction	**C**
Four-condition code in which each condition represents a signal element (of one or more bits)	**D**

Multi-condition code in which each condition represents a signal element (of one or more bits)	E
Multi-condition code in which each condition or combination of conditions represents a character	F
Sound of broadcasting quality (monophonic)	G
Sound of broadcasting quality (stereophonic or quadrophonic)	H
Sound of commercial quality (excluding categories given below)	J
Sound of commercial quality with the use of frequency inversion or band-splitting	K
Sound of commercial quality with separate frequency-modulated signals to control the level of demodulated signal	L
Monochrome	M
Colour	N
Combination of the above	W
Cases not otherwise covered	X

2. Fifth symbol - Nature of multiplexing

None	N
Code-division multiplex (this includes bandwidth expansion techniques)	C
Frequency-division multiplex	F
Time-division multiplex	T
Combination of frequency-division multiplex and time-division multiplex	W
Other types of multiplexing	X

Appendix 6 Part B - Examples for the designation of emissions

NONE	continuous wave emission
100H A1AAN	amplitude modulation; signal with quantized or digital information; continuous wave telegraphy, Morse code; bandwidth 100 Hz
2K10 A2AAN	amplitude modulation; signal with quantized or digital information; telegraphy by on-off keying of a tone modulated carrier, Morse code; bandwidth 2.1 kHz
8K00 A3EGN	amplitude modulation; sound broadcasting; double-sideband; bandwidth 8 kHz
6K00 A3EJN	amplitude modulation; telephony (commercial quality); double-sideband (single channel); bandwidth 6 kHz
328K A8--	amplitude modulation; composite emissions; double-sideband radio-relay system, frequency division multiplex; bandwidth 328 kHz
13M1 A8W--	amplitude modulation; composite emissions; double-sideband, television relay; bandwidth 13.13 MHz
20K9 A9WWF	amplitude modulation; composite emissions; double-sideband emission of VOR with voice (VOR = VHF omnidirectional radio range); bandwidth 20.94 kHz
6K00 B8EJN	amplitude modulation; telephony (commercial quality); independent sideband (two or more channels); bandwidth 6 kHz
12K0 B9WWF	amplitude modulation; composite emissions; independent sidebands; several telegraph channels with error-correction together with several telephone channels with privacy; frequency division multiplex; bandwidth 12 kHz
6M25 C3F--	amplitude modulation; television; vision; bandwidth 6.25 MHz
304H F1BBN	frequency modulation; signal with quantized or digital information; telegraphy without error-correction (single channel); bandwidth 304 Hz
304H F1BCN	frequency modulation; signal with quantized or digital information; selective calling signal; bandwidth 304 Hz
304H F1BCN	frequency modulation; signal with quantized or digital information; telegraphy, narrow-band direct-printing with error-correction (single channel); bandwidth 304 Hz
1K98 F1C--	frequency modulation; facsimile; facsimile by direct frequency modulation of the carrier; black and white; bandwidth 1.98 kHz
1K98 F3C--	frequency modulation; facsimile; analogue facsimile; bandwidth 1.98 kHz
180K F3EGN	frequency modulation; sound broadcasting; bandwidth 180 kHz
750K F3EGN	frequency modulation; television; sound; bandwidth 750 kHz

16K0 F3EJN	frequency modulation; telephony (commercial quality); commercial telephony; bandwidth 16 kHz
1K42 F7BDX	frequency modulation; signal with quantized or digital information; four-frequency duplex telegraphy; bandwidth 1.42 kHz
300K F8EHF	frequency modulation; composite emissions; stereophonic sound broadcasting with multiplexed subsidiary telephony sub-carrier; bandwidth 300 kHz
3M70 F8EJF	frequency modulation; composite emissions; radio-relay system, frequency division multiplex; bandwidth 3.702 MHz
2K11 H2BFN	amplitude modulation; signal with quantized or digital information; selective calling signal using sequential single frequency code, single-sideband full carrier; bandwidth 2.11 kHz
3K00 H3EJN	amplitude modulation; telephony (commercial quality); single-sideband, full carrier (single channel); bandwidth 3 kHz
134H J2BCN	amplitude modulation; signal with quantized or digital information; direct-printing telegraphy using a frequency shifted modulating subcarrier, with error-correction, single-sideband, suppressed carrier (single channel); bandwidth 134 Hz
1K98 J3C--	amplitude modulation; facsimile; analogue facsimile; frequency modulation of an audio frequency sub-carrier which modulates the main carrier, single-sideband suppressed carrier; bandwidth 1.98 kHz
4K45 J3EGN	amplitude modulation; sound broadcasting; single-sideband; suppressed; bandwidth 4.45 kHz
2K70 J3EJN	amplitude modulation; telephony (commercial quality); single-sideband, suppressed carrier (single channel); bandwidth 2.7 kHz
5K75 J8EKF	amplitude modulation; telephony (commercial quality); telephony with privacy, single-sideband, suppressed carrier (two or more channels); bandwidth 5.75 kHz
8M00 M7EJT	pulse modulation; composite emissions; radio-relay system; bandwidth 8 MHz
3M00 P0NAN	pulse modulation; radar; unmodulated pulse emission; bandwidth 3 MHz
2K89 R3CMN	amplitude modulation; facsimile; analogue facsimile by sub-carrier frequency modulation of a single-sideband emission with reduced carrier, monochrome; bandwidth 2.89 kHz
4K00 R3EGN	amplitude modulation; sound broadcasting; single-sideband; reduced carrier (single channel); bandwidth 4 kHz
2K99 R3ELN	amplitude modulation; telephony (commercial quality); telephony with separate frequency modulated signal to control the level of demodulated speech signal, single-sideband, reduced carrier (Lincompex) (single channel); bandwidth 2.99 kHz
2K89 R7BCW	amplitude modulation; signal with quantized or digital information; telegraphy, multi-channel with voice-frequency, error-correction, some channels are time-division multiplexed, single-sideband, reduced carrier; bandwidth 2.885 kHz ☺

18 Classes of stations and nature of the service

AL	Aeronautical radionavigation land station
AM	Aeronautical radionavigation mobile station
AT	Amateur station
AX	Aeronautical fixed station
BC	Broadcasting station, sound
BT	Broadcasting station, television
C	Continuous operation during hours shown
CA	Cargo ship
CO	Station open to official correspondence exclusively
CP	Station open to public correspondence
CR	Station open to limited public correspondence
CV	Station open exclusively to correspondence of a private agency
DR	Directive antenna provided with a reflector
EA	Space station in the amateur-satellite service
EB	Space station in the broadcasting-satellite service (sound broadcasting)
EC	Space station in the fixed-satellite service
ED	Space telecommand space station
EE	Space station in the standard frequency-satellite service
EF	Space station in the radiodetermination-satellite service
EG	Space station in the maritime mobile-satellite service
EH	Space research space station
EI	Space station in the mobile-satellite service
EJ	Space station in the aeronautical mobile-satellite service
EK	Space tracking space station
EM	Space station in the meteorological-satellite service
EN	Space station in the radionavigation-satellite service
EO	Space station in the aeronautical radionavigation-satellite service
EQ	Space station in the maritime radionavigation-satellite service
ER	Space telemetering space station
ES	Station in the intersatellite service
ET	Space station in the space operation service
EU	Space station in the land mobile-satellite service
EV	Space station in the broadcasting-satellite service (television)
EW	Space station in the earth exploration-satellite service
EX	Experimental station
EY	Space station in the time signal-satellite service
FA	Aeronautical station
FB	Base station
FC	Coast station
FD	Aeronautical station of the aeronautical mobile (R) service
FG	Aeronautical station of the aeronautical mobile (OR) service
FL	Land station
FP	Port station
FR	Receiving station only, connected with the general network of telecommunication channels
FS	Land station established solely for the safety of life
FX	Fixed station
GS	Station on board a warship or a military or naval aircraft
H	Schedule operation
H8	8-hour service provided by a ship station of the third category
H16	16-hour service provided by a ship station of the second category
H24	Continuous service throughout the twenty-four hours
HJ	Day service
HN	Night service
HT	Transition period service

HX	Intermittent service throughout the twenty-four hours, or stations having no specific working hours
I	Intermittent operation during the time indicated
LR	Radiolocation land station
MA	Aircraft station
ME	Space station
ML	Land mobile station
MO	Mobile station
MR	Radiolocation mobile station
MS	Ship station
MX	Fixed station used for transmission of meteorological information
ND	Non-directional antenna
NL	Maritime radionavigation land station
NR	Radionavigation mobile station
OD	Oceanographic data station
OE	Oceanographic data interrogation station
OT	Station open exclusively to operational traffic of the service concerned
PA	Passenger ship
PL	Combination of two or more classes of station (limited to collective entries made under the terms of RR2184)
PX	Fixed station used for press transmission
RA	Radio astronomy station
RC	Non-directional radiobeacon
RD	Directional radiobeacon
RG	Radio direction-finding station
RM	Maritime radionavigation mobile station
RN	Radionavigation land station
RT	Revolving radiobeacon
SM	Meteorological aids station
SS	Standard frequency and time signal station
TA	Space operation earth station in the amateur-satellite service
TB	Aeronautical earth station
TC	Earth station in the fixed-satellite service
TD	Space telecommand earth station
TE	Satellite emergency position-indicating radiobeacon (EPIRB) in the mobile-satellite service
TF	Fixed earth station in the radiodetermination-satellite service
TG	Ship earth station
TH	Earth station in the space research service
TI	Coast earth station
TJ	Aircraft earth station
TK	Space tracking earth station
TL	Mobile earth station in the radiodetermination-satellite service
TM	Earth station in the meteorological-satellite service
TN	Fixed earth station in the radionavigation-satellite service
TO	Mobile earth station in the aeronautical radionavigation-satellite service
TP	Receiving earth station
TQ	Mobile earth station in the maritime radionavigation-satellite service
TR	Space telemetering earth station
TS	Television, sound channel
TT	Earth station in the space operation service
TU	Land mobile earth station
TV	Television, vision channel
TW	Earth station in the earth exploration-satellite service
TX	Fixed earth station in the maritime radionavigation-satellite service
TY	Base earth station
TZ	Fixed earth station in the aeronautical radionavigation-satellite service
UA	Mobile earth station
UD	Space telecommand mobile earth station
UH	Mobile earth station in the space research service

UK	Space tracking mobile earth station
UM	Mobile earth station in the radionavigation-satellite service
UN	Mobile earth station in the meteorological-satellite service
UR	Space telemetering mobile earth station
UT	Mobile earth station in the space operation service
UW	Mobile earth station in the earth exploration-satellite service
VA	Land earth station ☺

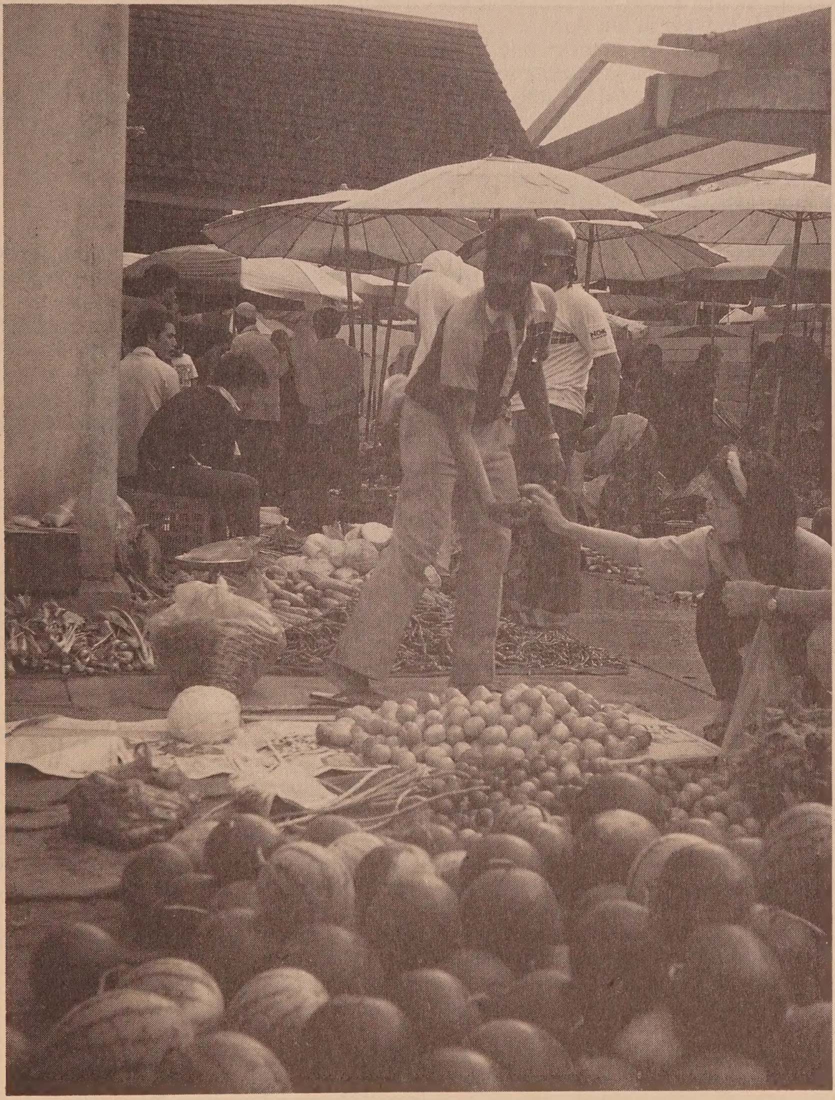

Figure 5 - The market of Kuala Terengganu on the east coast of Peninsular Malaysia, one of the locations during our 1990 monitoring mission in Malaysia and Singapore. Facing the South China Sea, Kuala Terengganu is located only 400 km from the southern tip of Viet Nam. Those "boat people" which are not killed, raped and robbed by pirates in the open sea strand in this area, and are concentrated in camps of the United Nations under degrading conditions.

19 Terms and definitions

Introduction

Notes 1. If, in the text of a definition below, a term is printed in italics, this means that the term itself is defined in this Article.

2. Definitions of services and systems without frequency allocations on longwave and shortwave (e.g. most satellite services) are omitted.

RR 2 For the purposes of these Regulations, the following terms shall have the meanings defined below. These terms and definitions do not, however, necessarily apply for other purposes.

Section I - General Terms

RR 3 **Administration**: Any governmental department or service responsible for discharging the obligations undertaken in the Conventions of the International Telecommunication Union and the Regulations.

RR 4 **Telecommunication**: Any transmission, *emission* or reception of signs, signals, writing, images and sounds or intelligence of any nature by wire, *radio*, optical or other electromagnetic systems.

RR 5 **Radio**: A general term applied to the use of *radio waves*.

RR 6 **Radio Waves** or **Hertzian Waves**: Electromagnetic waves of frequencies arbitrarily lower than 3000 GHz, propagated in space without artificial guide.

RR 7 **Radiocommunication**: *Telecommunication* by means of *radio waves*.

RR 8 **Terrestrial Radiocommunication**: Any *radiocommunication* other than *space radiocommunication* or *radio astronomy*.

RR 9 **Space Radiocommunication**: Any *radiocommunication* involving the use of one or more *space stations* or the use of one or more *reflecting satellites* or other objects in space.

RR 10 **Radiodetermination**: The determination of the position, velocity and/or other characteristics of an object, or the obtaining of information relating to these parameters, by means of the propagation properties of *radio waves*.

RR 11 **Radionavigation**: *Radiodetermination* used for the purposes of navigation, including obstruction warning.

RR 12 **Radiolocation**: *Radiodetermination* used for purposes other than those of *radionavigation*.

RR 13 **Radio Direction-Finding**: *Radiodetermination* using the reception of *radio waves* for the purpose of determining the direction of a *station* or object.

RR 14 **Radio Astronomy**: Astronomy based on the reception of *radio waves* of cosmic origin.

RR 15 **Coordinated Universal Time (UTC)**: Time scale, based on the second (SI), as defined and recommended by the CCIR (the full definition is contained in CCIR Recommendation 460-2), and maintained by the International Time Bureau (BIPM). For most practical purposes associated with the Radio Regulations, UTC is equivalent to mean solar time at the prime meridian (0° longitude), formerly expressed in GMT.

RR 16 **Industrial, Scientific and Medical (ISM) Applications** (of radio frequency energy): Operation of equipment or appliances designed to generate and use locally radio frequency energy for industrial, scientific, medical, domestic or similar purposes, excluding applications in the field of *telecommunications*.

Section II - Specific terms related to frequency management

RR 17 **Allocation** (of a frequency band): Entry in the Table of Frequency Allocations of a given frequency band for the purpose of its use by one or more terrestrial or space *radiocommunication services* or the *radio astronomy service* under specified conditions. This term shall also be applied to the frequency band concerned.

RR 18 **Allotment** (of a radio frequency or radio frequency channel): Entry of a designated frequency channel in an agreed plan, adopted by a competent conference, for use by one or more administrations for a terrestrial or space *radiocommunication service* in one or more identified countries or geographical areas and under specified conditions.

RR 19 **Assignment** (of a radio frequency or radio frequency channel): Authorization given by an administration for a radio *station* to use a radio frequency or radio frequency channel under specified conditions.

Section III - Radio services

RR 20 **Radiocommunication Service**: A service as defined in this Section involving the transmission, *emission* and/or reception of *radio waves* for specific *telecommunication* purposes. In these Regulations, unless otherwise stated, any radiocommunication service relates to *terrestrial radiocommunication.*

RR 21 **Fixed Service**: A *radiocommunication service* between specified fixed points.

RR 23 **Aeronautical Fixed Service**: A *radiocommunication service* between specified fixed points provided primarily for the safety of air navigation and for the regular, efficient and economical operation of air transport.

RR 26 **Mobile Service**: A *radiocommunication service* between *mobile* and *land stations*, or between *mobile stations.*

RR 28 **Land Mobile Service**: A *mobile service* between *base stations* and *land mobile stations*, or between *land mobile stations*.

RR 30 **Maritime Mobile Service**: A *mobile service* between *coast stations* and *ship stations*, or between *ship stations*. or between associated *on-board communication stations*; *survival craft stations* and *emergency position-indicating radiobeacon stations* may also participate in this service.

RR 32 **Port Operations Service**: A *maritime mobile service* in or near a port, between *coast stations* and *ship stations*, or between *ship stations*, in which messages are restricted to those relating to the operational handling, the movement and the safety of ships and, in emergency, to the safety of persons. Messages which are of a *public correspondence* nature shall be exluded from this service.

RR 33 **Ship Movement Service**: A *safety service* in the *maritime mobile service* other than a *port operations service*, between *coast stations* and *ship stations*, or between *ship stations*, in which messages are restricted to those relating to the movement of ships. Messages which are of a *public correspondence* nature shall be exluded from this service.

RR 34 **Aeronautical Mobile Service**: A *mobile service* between *aeronautical stations* and *aircraft stations*, or between *aircraft stations*, in which *survival craft stations* may participate; *emergency position-indicating radiobeacon stations* may also participate in this service on designated distress and emergency frequencies.

RR 34A **Aeronautical Mobile Route (R) Service**: An *aeronautical mobile service* reserved for communications relating to safety and regularity of flight, primarily along national or international civil air routes.

RR 34B **Aeronautical Mobile Off-Route (OR) Service**: An *aeronautical mobile service* intended for communications, including those relating to flight coordination, primarily outside national or international civil air routes.

RR 36 **Broadcasting Service**: A *radiocommunication service* in which the transmissions are intended for direct reception by the general public. This service may include sound transmissions, *television* transmissions or other types of transmission.

RR 38 **Radiodetermination Service**: A *radiocommunication service* for the purpose of *radiodetermination.*

RR 40 **Radionavigation Service**: A *radiodetermination service* for the purpose of *radionavigation.*

RR 42 **Maritime Radionavigation Service**: A *radionavigation service* intended for the benefit and for the safe operation of ships.

RR 44 **Aeronautical Radionavigation Service**: A *radionavigation service* intended for the benefit and for the safe operation of aircraft.

RR 46 **Radiolocation Service**: A *radiodetermination service*, for the purpose of *radiolocation.*

RR 47 **Meteorological Aids Service**: A *radiocommunication service* used for meteorological, including hydrological, observations and exploration.

RR 50 **Standard Frequency and Time Signal Service:** A *radiocommunication service* for scientific, technical and other purposes, providing the transmission of specified frequencies, time signals, or both, of stated high precision, intended for general reception.

RR 52 **Space Research Service:** A *radiocommunication service* in which *spacecraft* or other objects in space are used for scientific or technological research purposes.

RR 53 **Amateur Service:** A *radiocommunication service* for the purpose of self-training, intercommunication and technical investigations carried out by amateurs, that is, by duly authorized persons interested in radio technique solely with a personal aim and without pecuniary interest.

RR 54 **Amateur-Satellite Service:** A *radiocommunication service* using *space stations* on earth *satellites* for the same purposes as those of the *amateur service*.

RR 55 **Radio Astronomy Service:** A service involving the use of *radio astronomy*.

RR 56 **Safety Service:** Any *radiocommunication service* used permanently or temporarily for the safeguarding of human life and property.

RR 57 **Special Service:** A *radiocommunication service*, not otherwise defined in this Section, carried on exclusively for specific needs of general utility, and not open to *public correspondence*.

Section IV - Radio stations and systems

RR 58 **Station:** One or more transmitters or receivers or a combination of transmitters and receivers, including the accessory equipment, necessary at one location for carrying on a *radiocommunication service*, or the *radio astronomy service*. Each station shall be classified by the service in which it operates permanently or temporarily.

RR 59 **Terrestrial Station:** A *station* effecting *terrestrial radiocommunication*. In these Regulations, unless otherwise stated, any *station* is a terrestrial station.

RR 60 **Earth Station:** A *station* located either on the Earth's surface or within the major portion of the Earth's atmosphere and intended for communication:

- with one or more *space stations*; or
- with one or more *stations* of the same kind by means of one or more reflecting *satellites* or other objects in space.

RR 61 **Space Station:** A *station* located on an object which is beyond, is intended to go beyond, or has been beyond, the major portion of the Earth's atmosphere.

RR 62 **Survival Craft Station:** A *mobile station* in the *maritime mobile service* or the *aeronautical mobile service* intended solely for survival purposes and located on any lifeboat, life-raft or other survival equipment.

RR 63 **Fixed Station:** A *station* in the *fixed service*.

RR 64 **Aeronautical Fixed Station:** A *station* in the *aeronautical fixed service*.

RR 65 **Mobile Station:** A *station* in the *mobile service* intended to be used while in motion or during halts at unspecified points.

RR 67 **Land Station:** A *station* in the *mobile service* not intended to be used while in motion.

RR 68 **Base Station:** A *land station* in the *land mobile service*.

RR 69 **Land Mobile Station:** A *mobile station* in the *land mobile service* capable of surface movement within the geographical limits of a country or continent.

RR 70 **Coast Station:** A *land station* in the *maritime mobile service*.

RR 72 **Ship Station:** A *mobile station* in the *maritime mobile service* located on board a vessel which is not permanently moored, other than a *survival craft station*.

RR 74 **On-Board Communication Station:** A low-powered *mobile station* in the *maritime mobile service* intended for use for internal communications on board a ship, or between a ship and its lifeboats and life-rafts during lifeboat drills or operations, or for communication within a group of vessels being towed or pushed, as well as for line handling and mooring instructions.

RR 75 **Port Station:** A *coast station* in the *port operations service*.

RR 76 **Aeronautical Station:** A *land station* in the *aeronautical mobile service*. In certain instances, an aeronautical station may be located, for example, on board ship or on a platform at sea.

RR 78 **Aircraft Station:** A *mobile station* in the *aeronautical mobile service*, other than a *survival craft station*, located on board an aircraft.

RR 80 **Broadcasting Station:** A *station* in the *broadcasting service.*

RR 81 **Radiodetermination Station:** A *station* in the *radiodetermination service.*

RR 82 **Radionavigation Mobile Station:** A *station* in the *radionavigation service* intended to be used while in motion or during halts at unspecified points.

RR 83 **Radionavigation Land Station:** A *station* in the *radionavigation service* not intended to be used while in motion.

RR 84 **Radiolocation Mobile Station:** A *station* in the *radiolocation service* intended to be used while in motion or during halts at unspecified points.

RR 85 **Radiolocation Land Station:** A *station* in the *radiolocation service* not intended to be used while in motion.

RR 86 **Radio Direction-Finding Station:** A *radiodetermination station* using *radio direction-finding.*

RR 87 **Radiobeacon Station:** A *station* in the *radionavigation service* the *emissions* of which are intended to enable a *mobile station* to determinate its bearing or direction in relation to the radiobeacon station.

RR 88 **Emergency Position-Indicating Radiobeacon Station:** A *station* in the *mobile service* the *emissions* of which are intended to facilitate search and rescue operations.

RR 89 **Standard Frequency and Time Signal Station:** A *station* in the *standard frequency and time signal service.*

RR 90 **Amateur Station:** A *station* in the *amateur service.*

RR 91 **Radio Astronomy Station:** A *station* in the *radio astronomy service.*

RR 92 **Experimental Station:** A *station* utilizing *radio waves* in experiments with a view to the development of science or technique. This definition does not include *amateur stations.*

RR 93 **Ship's Emergency Transmitter:** A ship's transmitter to be used exclusively on a distress frequency for distress, urgency or safety purposes.

Section V - Operational terms

RR 110 **Public Correspondence:** Any *telecommunication* which the offices and *stations* must, by reason of their being at the disposal of the public, accept for transmission.

RR 111 **Telegraphy** (Note by the General Secretariat: This definition is not in alignment with Annex 2 to the Convention. The corresponding definition in that Annex shall prevail to the extent that there are differences between them (see also Resolution 68).): A form of *telecommunication* which is concerned in any process providing transmission and reproduction at a distance of documentary matter, such as written or printed matter or fixed images, or the reproduction at a distance of any kind of information in such a form. For the purposes of the Radio Regulations, unless otherwise specified therein, telegraphy shall mean a form of *telecommunication* for the transmission of written matter by the use of a signal code.

RR 112 **Telegram:** Written matter intended to be transmitted by *telegraphy* for delivery to the addressee. This term also includes *radiotelegrams* unless otherwise specified. In this definition the term *telegraphy* has the same general meaning as defined in the Convention.

RR 113 **Radiotelegram:** A *telegram*, originating in or intended for a *mobile station* or a *mobile earth station* transmitted on all or part of its route over the *radiocommunication* channels of the *mobile service* or of the *mobile-satellite service.*

RR 114 **Radiotelex Call:** A telex call, originating in or intended for a *mobile station* or a *mobile earth station*, transmitted on all or part of its route over the *radiocommunication* channels of the *mobile service* or of the *mobile-satellite service.*

RR 115 **Frequency-Shift Telegraphy:** *Telegraphy* by frequency modulation in which the telegraph signal shifts the frequency of the carrier between predetermined values.

RR 116 **Facsimile:** A form of *telegraphy* for the transmission of fixed images, with or without half-tones, with a view to their reproduction in a permanent form. In this definition the term *telegraphy* has the same general meaning as defined in the Convention.

RR 117 **Telephony** (Note by the General Secretariat: This definition is not in alignment with Annex 2 to the Convention. The corresponding definition in that Annex shall prevail to the extent that there are differences between them (see also Resolution 68).): A form of *telecommunication* set up for the transmission of speech or, in some cases, other sounds.

RR 118 **Radiotelephone Call**: A telephone call, originating in or intended for a *mobile station* or a *mobile earth station*, transmitted on all or part of its route over the *radiocommunication* channels of the *mobile service* or of the *mobile-satellite service*.

RR 119 **Simplex Operation**: Operating method in which transmission is made possible alternately in each direction of a *telecommunication* channel, for example, by means of manual control. (In general, *duplex operation* and *semi-duplex operation* require two frequencies in *radiocommunication*; *simplex operation* may use either one or two.)

RR 120 **Duplex Operation**: Operating method in which transmission is made possible simultaneously in both directions of a *telecommunication* channel. (In general, *duplex operation* and *semi-duplex operation* require two frequencies in *radiocommunication*; *simplex operation* may use either one or two.)

RR 121 **Semi-Duplex Operation**: A method which is *simplex operation* at one end of the circuit and *duplex operation* at the other. (In general, *duplex operation* and *semi-duplex operation* require two frequencies in *radiocommunication*; *simplex operation* may use either one or two.)

RR 122 **Television**: A form of *telecommunication* for the transmission of transient images of fixed or moving objects.

RR 125 **Telemetry**: The use of *telecommunication* for automatically indicating or recording measurements at a distance from the measuring instrument.

RR 126 **Radiotelemetry**: *Telemetry* by means of *radio waves*.

RR 128 **Telecommand**: The use of *telecommunication* for the transmission of signals to initiate, modify or terminate functions of equipment at a distance.

Section VI - Characteristics of emissions and radio equipment

RR 131 **Radiation**: The outward flow of energy from any source in the form of *radio waves*.

RR 132 **Emission**: *Radiation* produced, or the production of *radiation*, by a radio transmitting *station*. For example, the energy radiated by the local oscillator of a radio receiver would not be an emission but a radiation.

RR 133 **Class of Emission**: The set of characteristics of an *emission*, designated by standard symbols, e. g. type of modulation of the main carrier, modulating signal, type of information to be transmitted, and also, if appropriate, any additional signal characteristics.

RR 134 **Single-Sideband Emission**: An amplitude modulated *emission* with one sideband only.

RR 135 **Full Carrier Single-Sideband Emission**: A *single-sideband emission* without reduction of the carrier.

RR 136 **Reduced Carrier Single-Sideband Emission**: A *single-sideband emission* in which the degree of carrier suppression enables the carrier to be reconstituted and to be used for demodulation.

RR 137 **Suppressed Carrier Single-Sideband Emission**: A *single-sideband emission* in which the carrier is virtually suppressed and not intended to be used for demodulation.

RR 138 **Out-of-Band Emission** (in French: emission hors bande; in Spanish: emisión fuera de banda): *Emission* on a frequency or frequencies immediately outside the *necessary bandwidth* which results from the modulation process, but excluding *spurious emissions*.

RR 139 **Spurious Emission** (in French: rayonnement non essentiel; in Spanish: emisión no esencial): *Emission* on a frequency or frequencies which are outside the *necessary bandwidth* and the level of which may be reduced without affecting the corresponding transmission of information. Spurious emissions include harmonic *emissions*, parasitic *emissions*, intermodulation products and frequency conversion products, but exclude *out-of-band emissions*.

RR 140 **Unwanted Emissions** (in French: rayonnements non désirés; in Spanish: emisiones no deseadas): Consist of *spurious emissions* and *out-of-band emissions*.

RR 141 **Assigned Frequency Band**: The frequency band within which the *emission* of a *station* is authorized; the width of the band equals the *necessary bandwidth* plus twice the absolute value of the *frequency tolerance*. Where *space stations* are concerned, the assigned frequency band includes twice the maximum Doppler shift that may occur in relation to any point of the Earth's surface.

RR 142 **Assigned Frequency**: The centre of the frequency band assigned to a *station*.

RR 143 **Characteristic Frequency**: A frequency which can be easily identified and measured in a given *emission*. A carrier frequency may, for example, be designated as the characteristtic frequency.

RR 144 **Reference Frequency**: A frequency having a fixed and specified position with respect to the *assigned frequency*. The displacement of this frequency with respect to the *assigned frequency* has the same absolute value and sign that the displacement of the *characteristic frequency* has with respect to the centre of the frequency band occupied by the *emission*.

RR 145 **Frequency Tolerance**: The maximum permissible departure by the centre frequency of the frequency band occupied by an *emission* from the *assigned frequency* or, by the *characteristic frequency* of an *emission* from the *reference frequency*. The frequency tolerance is expressed in parts in 10^6 or in hertz.

RR 146 **Necessary Bandwidth**: For a given *class of emission*, the width of the frequency band which is just sufficient to ensure the transmission of information at the rate and with the quality required under specified conditions.

RR 147 **Occupied Bandwidth**: The width of a frequency band such that, below the lower and above the upper frequency limits, the *mean powers* emitted are each equal to a specified percentage $\beta/2$ of the total *mean power* of a given *emission*. Unless otherwise specified by the CCIR for the appropriate *class of emission*, the value of $\beta/2$ should be taken as 0.5 % .

RR 148 **Right-Hand** (clockwise) **Polarized Wave**: An elliptically- or circularly- polarized wave, in which the electric field vector, observed in any fixed plane, normal to the direction of propagation, whilst looking in the direction of propagation, rotates with time in a right-hand or clockwise direction.

RR 149 **Left-Hand** (anticlockwise) **Polarized Wave**: An elliptically- or circularly-polarized wave, in which the electric field vector, observed in any fixed plane, normal to the direction of propagation, whilst looking in the direction of propagation, rotates with time in a left-hand or anticlockwise direction.

RR 150 **Power**: Whenever the power of a radio transmitter etc. is referred to it shall be expressed in one of the following forms, according to the *class of emission*, using the arbitrary symbols indicated:

- **Peak Envelope Power** (*P*X or *p*X);
- **Mean Power** (*P*Y or *p*Y);
- **Carrier Power** (*P*Z or *p*Z).

For different *classes of emission*, the relationships between *peak envelope power*, *mean power* and *carrier power*, under the conditions of normal operation and of no modulation, are contained in CCIR Recommendations which may be used as a guide. For use in formulae, the symbol *P* denotes power expressed in watts and the symbol P denotes power expressed in decibels relative to a reference level.

RR 151 **Peak Envelope Power** (of a radio transmitter): The average power supplied to the antenna transmission line by a transmitter during one radio frequency cycle at the crest of the modulation envelope taken under normal operating conditions.

RR 152 **Mean Power** (of a radio transmitter): The average power supplied to the antenna transmission line by a transmitter during an interval of time sufficiently long compared with the lowest frequency encountered in the modulation taken under normal operating conditions.

RR 153 **Carrier Power** (of a radio transmitter): The average power supplied to the antenna transmission line by a transmitter during one radio frequency cycle taken under the condition of no modulation.

RR 154 **Gain of an Antenna**: The ratio, usually expressed in decibels, of the power required at the input of a loss-free reference antenna to the power supplied to the input of the given antenna to produce, in a given direction, the same field strength or the same power flux-density at the same distance. When not specified otherwise, the gain refers to the direction of maximum *radiation*. The gain may be considered for a specified polarization. Depending on the choice of the reference antenna a distinction is made between:

a) **Absolute or Isotropic Gain** (G_i), when the reference antenna is an isotropic antenna isolated in space;

b) **Gain Relative to a Half-Wave Dipole** (G_d), when the reference antenna is a half-wave dipole isolated in space whose equatorial plane contains the given direction;

c) **Gain Relative to a Short Vertical Antenna** (G_v), when the reference antenna is a linear conductor, much shorter than one quarter of the wavelength, normal to the surface of a perfectly conducting plane which contains the given direction.

RR 155 **Equivalent Isotropically Radiated Power** (E.I.R.P.): The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna (*absolute or isotropic gain*).

RR 156 **Effective Radiated Power** (E.R.P.) (in a given direction): The product of the power supplied to the antenna and its *gain relative to a half-wave dipole* in a given direction.

RR 157 **Effective Monopole Radiated Power** (E.M.R.P.) (in a given direction): The product of the power supplied to the antenna and its *gain relative to a short vertical antenna* in a given direction.

RR 158 **Tropospheric Scatter**: The propagation of *radio waves* by scattering as a result of irregularities or discontinuities in the physical properties of the troposphere.

RR 159 **Ionospheric Scatter**: The propagation of *radio waves* by scattering as a result of irregularities or discontinuities in the physical properties of the ionosphere.

Section VII - Frequency sharing

RR 160 **Interference**: The effect of unwanted energy due to one or a combination of *emissions*, *radiations*, or inductions upon reception in a *radiocommunication* system, manifested by any performance degradation, misinterpretation, or loss of information which could be extracted in the absence of such unwanted energy.

RR 161 **Permissible Interference** (this term is used in the coordination of frequency assignments between administrations): Observed or predicted *interference* which complies with quantitative *interference* and sharing criteria contained in these Regulations or in CCIR Recommendations or in special agreements as provided for in these Regulations.

RR 162 **Accepted Interference** (this term is used in the coordination of frequency assignments between administrations): *Interference* at a higher level than that defined as *permissible interference* and which has been agreed upon between two or more administrations without prejudice to other administrations.

RR 163 **Harmful Interference** (Note by the General Secretariat: This definition is not in alignment with Annex 2 to the Convention. The corresponding definition in that Annex shall prevail to the extent that there are differences between them (see also Resolution 68).): *Interference* which endangers the functioning of a *radionavigation service* or of other *safety services* or seriously degrades, obstructs, or repeatedly interrupts a *radiocommunication service* operating in accordance with these Regulations.

RR 164 **Protection Ratio** (R.F.): The minimum value of the wanted-to-unwanted signal ratio, usually expressed in decibels, at the receiver input, determined under specified conditions such that a specified reception quality of the wanted signal is achieved at the receiver output.

Section VIII - Technical terms relating to space

RR 169 **Deep Space**: Space at distances from the Earth approximately equal to, or greater than, the distance between the Earth and the Moon.

RR 170 **Spacecraft**: A man-made vehicle which is intended to go beyond the major portion of the Earth's atmosphere.

RR 171 **Satellite**: A body which revolves around another body of preponderant mass and which has a motion primarily and permanently determined by the force of attraction of that other body.

RR 172 **Active Satellite**: A *satellite* carrying a *station* intended to transmit or retransmit radiocommunication signals.

RR 173 **Reflecting Satellite**: A *satellite* intended to reflect radiocommunication *signals*.

RR 174 **Active Sensor**: A measuring instrument in the *earth exploration-satellite service* or in the *space research service* by means of which information is obtained by transmission and reception of *radio waves*.

RR 175 **Passive Sensor**: A measuring instrument in the *earth exploration-satellite service* or in the *space research service* by means of which information is obtained by reception of *radio waves* of natural origin.

RR 176 **Orbit**: The path, relative to a specified frame of reference, described by the centre of mass of a *satellite* or other object in space subjected primarily to natural forces, mainly the force of gravity.

RR 177 **Inclination of an Orbit** (of an earth satellite): The angle determined by the plane containing the *orbit* and the plane of the Earth's equator.

RR 178 **Period** (of a satellite): The time elapsing between two consecutive passages of a *satellite* through a characteristic point on its *orbit*.

RR 179 **Altitude of the Apogee or of the Perigee**: The altitude of the apogee or perigee above a specified reference surface serving to represent the surface of the Earth.

RR 180 **Geosynchronous Satellite**: An earth *satellite* whose period of revolution is equal to the period of rotation of the Earth about its axis.

RR 181 **Geostationary Satellite**: A *geosynchronous satellite* whose circular and direct *orbit* lies in the plane of the Earth's equator and which thus remains fixed relative to the Earth; by extension, a *satellite* which remains approximately fixed relative to the Earth.

RR 182 **Geostationary-Satellite Orbit**: The *orbit* in which a *satellite* must be placed to be a *geostationary satellite*.

Nomenclature of the frequency and wavelength bands used in radiocommunication

RR 208 The radio spectrum shall be subdivided into nine frequency bands, which shall be designated by progressive whole numbers in accordance with the following table. As the unit of frequency is the hertz (Hz), frequencies shall be expressed

- in kilohertz (kHz), up to and including 3000 kHz;
- in megahertz (MHz), above 3 MHz, up to and including 3000 MHz;
- in gigahertz (GHz), above 3 GHz, up to and including 3000 GHz.

For bands above 3000 GHz, i. e. centimillimetric waves, micrometric waves and decimicrometric waves, it would be appropriate to use terahertz (THz).

However, where adherence to these provisions would introduce serious difficulties, for example in connection with the notification and registration of frequencies, the lists of frequencies and related matters, reasonable departures may be made.

band number	symbols	frequency range (lower limit exclusive, upper limit inclusive)	corresponding metric subdivision	metric abbreviations for the bands
4	VLF	3 to 30 kHz	myriametric waves	B.Mam
5	LF	30 to 300 kHz	kilometric waves	B.km
6	MF	300 to 3000 kHz	hectometric waves	B.hm
7	HF	3 to 30 MHz	decametric waves	B.dam
8	VHF	30 to 300 MHz	metric waves	B.m
9	UHF	300 to 3000 MHz	decimetric waves	B.dm
10	SHF	3 to 30 GHz	centimetric waves	B.cm
11	EHF	30 to 300 GHz	millimetric waves	B.mm
12		300 to 3000 GHz	decimillimetric waves	

Note 1: "Band number N" (N = band number) extends from 0.3×10^N Hz to 3×10^N Hz.
Note 2: Prefix: k = kilo (10^3), M = mega (10^6), G = giga (10^9), T = tera (10^{12}).

RR 209 In communications between administrations and the ITU, no names, symbols or abbreviations should be used for the various frequency bands other than those specified in RR 208.

Nomenclature of dates and times used in radiocommunication

RR 235 Any date used in relation to radiocommunication shall be according to the Gregorian Calendar.

RR 236 If in a date the month is not indicated either in full or in an abbreviated form, it shall be expressed in an all-numeric form with the fixed sequence of figures, two of each representing the day, month and year.

RR 237 Whenever a date is used in connection with Coordinated Universal Time (UTC), this date shall be that of the prime meridian at the appropriate time, the prime meridian corresponding to zero degrees geographical latitude.

RR 238 Whenever a specified time is used in international radiocommunication activities, UTC shall be applied, unless otherwise indicated, and it shall be presented as a four-digit group (0000-2359). The abbreviation UTC shall be used in all languages. ☺

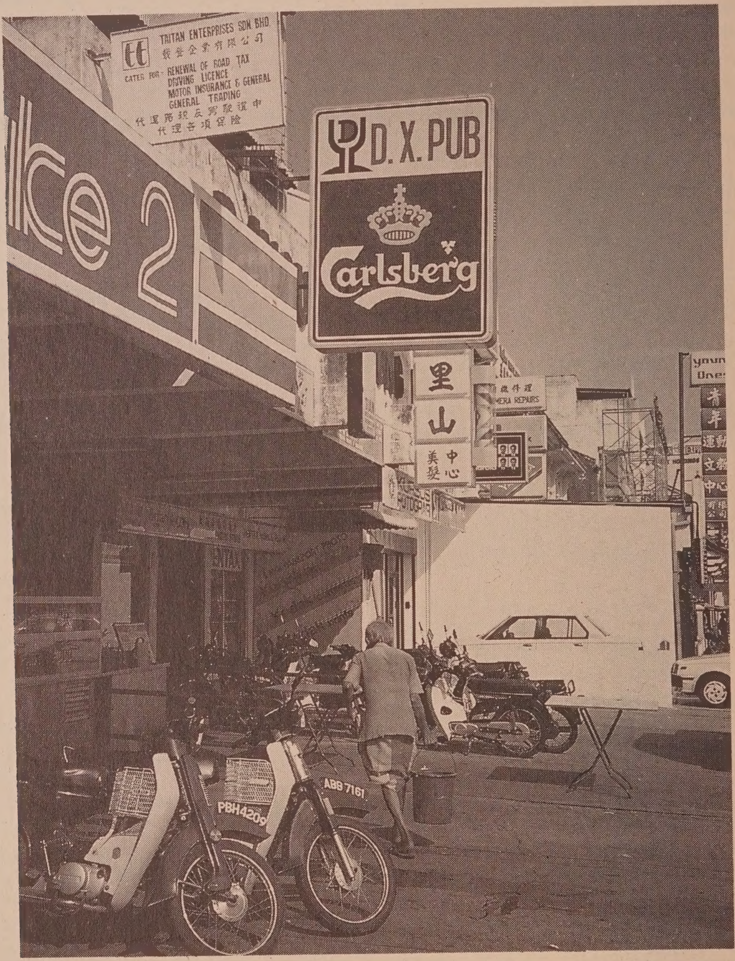

Figure 6 - The "DX Pub" that we found strolling through the fascinating old town of Georgetown on Pinang Island off the west coast of Peninsular Malaysia, one of the locations during our 1990 monitoring mission in Malaysia and Singapore. It is located on Jalan Burmah / Lorong Madras (Burma Street / Madras Lane) and has nothing to do with the abbreviation *DX* used in amateur radio - the barkeeper insists that it stands for *The Excellent Pub*!

20 Aeronautical Mobile Service regulations

20.1 Terms and definitions

AP27.1 **Frequency Allotment Plan**: A plan which shows the frequencies to be used in particular areas without specifying the stations to which the frequencies are to be assigned.

AP27.2 The terms to express the different methods of frequency distribution as used in this Appendix have the following meanings

frequency distribution to	English	French	Spanish
services	allocation (to allocate)	attribution (attribuer)	atribución (atribuir)
areas	allotment (to allot)	allotissement (allotir)	adjudicación (adjudicar)
stations	assignment (to assign)	assignation (assigner)	asignación (asignar)

AP27.3 **Major World Air Route**: A long-distance route, made up of one or more segments, essentially international in character, extending through more than one country and requiring long-distance communication facilities.

AP27.4 **Major World Air Route Area** (MWARA): An area embracing a certain number of Major World Air Routes, which generally follow the same traffic pattern and are so related geographically that the same frequency families may logically be applied.

AP27.5 **Regional And Domestic Air Routes**: All those routes using the Aeronautical Mobile (R) Service not covered by the definition of a Major World Air Route in AP27.3 .

AP27.6 **Regional And Domestic Air Routes Area** (RDARA): An area embracing a certain number of the air routes defined in AP27.5 .

AP27.7 **Volmet Allotment Area**: An area encompassing all points where an HF broadcast facility might be required to operate on a family of frequencies common to the area.

AP27.8 **Volmet Reception Area**: An area within which aircraft should be able to receive broadcasts from one or more stations in the associated VOLMET Allotment Area.

AP27.8A **World-Wide Allotment Area**: An area in which frequencies are allotted to provide long-distance communication between an aeronautical station within that allotment area and aircraft operating anywhere in the world. (The type of communication referred to herein may be regulated by administrations.)

AP27.9 **Family Of Frequencies In The Aeronautical Mobile (R) Service**: This contains two or more frequencies selected from different aeronautical mobile (R) bands and is intended to permit communication at any time within the authorized area of use (see AP27.189 to AP27.207A) between aircraft stations and appropriate aeronautical stations.

20.2 Channel characteristics and utilization

AP27.10 The frequency separation between carrier (reference) frequencies shall be 3 kHz. This is adequate to permit communications using the classes of emission referred to in AP27.49 - AP27.52 in the frequency bands between 2850 kHz and 22000 kHz allocated exclusively to the aeronautical mobile (R) service. The carrier (reference) frequency of the channels in the Plan shall be an integral multiple of 1 kHz.

AP27.11 For radiotelephone emissions the audio frequencies will be limited to between 300 and 2700 Hz and the occupied bandwidth of other authorized emissions will not exceed the upper limit of J3E emissions. In specifying these limits, however, no restriction in their extension is implied in so far as emissions other than J3E are concerned, provided that the limits of unwanted emissions are met (see AP27.66B and AP27.66C).

AP27.11A Note: For aircraft and aeronautical station transmitter types first installed before 01 February 1983, the audio frequencies will be limited to 3000 Hz.

AP27.11B On account of the possibility of interference, a given channel should not be used in the same allotment area for radiotelephony and data transmissions.

AP27.12 The use of channels derived from the frequencies indicated in AP27.16 for the various classes of emissions other than J3E and H2B will be subject to special arrangements by the administrations concerned and affected in order to avoid harmful interference which may result from the simultaneous use of the same channel for several classes of emission.

AP27.14 To preclude the possibility of interference, adjacent channels in the list of frequencies in AP27.16 have not as a rule been allotted to the same MWARA, RDARA or VOLMET areas. However, to satisfy particular needs, the administrations concerned may conclude special arrangements, for the assignment of adjacent channels derived from the frequencies in the table (AP27.16).

AP27.15 The arrangements contemplated in AP27.12 and AP27.14 should be made under the Articles of the International Telecommunication Convention and the Radio Regulations entitled "Special Arrangements".

20.3 Frequencies allotted

AP27.16 The list of carrier (reference) frequencies allotted in the bands allocated exclusively to the aeronautical mobile (R) service, on the basis of the frequency separation provided for under AP27.10, will be found in chapter 3.3 of this reference book. To calculate the assigned frequency from a carrier (reference) frequency given therein, reference should be made to AP27.72, AP27.72B and AP27.73 .

20.4 Classes of emission

AP27.49 In the aeronautical mobile (R) service the use of emissions such as those listed below is permissible subject to compliance with the special provisions applicable to each case and provided that such use does not cause harmful interference to other users of the channel concerned.

AP27.50 Telephony - amplitude modulation:
- single sideband, suppressed carrier (J3E)

AP27.51 Telegraphy (including automatic data transmission)
- amplitude modulation:
- telegraphy without the use of a modulating audio frequency (by on-off keying) (A1A[1])
- telegraphy by the on-off keying of an amplitude modulating audio frequency or audio frequencies or by the on-off keying of the modulated emission and including selective calling, single sideband, full carrier (H2B)
- multichannel voice frequency telegraphy, single sideband, suppressed carrier (J2B)
- other transmissions such as automatic data transmission, single sideband, suppressed carrier (J2D)

AP27.52
- frequency modulation:
- telegraphy by frequency shift keying without the use of a modulating audio frequency, one of two frequencies being emitted at any instant (F1B[1])

[1] A1A and F1B are permitted provided they do not cause harmful interference to the classes of emission H2B, J2B, J3E and J9D. In addition, care should be taken to place these emissions at or near the centre of the channnel. However, a modulating audio frequency is permitted with single sideband transmitters, where the carrier is suppressed.

AP27.72 For single-sideband emissions, except the class of emission H2B, the assigned frequency shall be at a value 1400 Hz above the carrier (reference) frequency.

AP27.72B For classes of emission A1A and F1B the assigned frequency shall be chosen in accordance with the provisions of the footnote to AP27.51 and AP27.52.

AP27.73 The assigned frequency of a station employing double sideband emissions (A3E) shall be at the carrier (reference) frequency.

20.5 Frequency Allotment Plan by areas (AP27.186 to AP27.189)

MWARAs

AFI	2851 2878 3419 3425 3467 4657 5493 5652 5658 6559 6574 6673 8894 8903 11300 11330 13273 13288 13294 17961
CAR	2887 3455 5520 5550 6577 6586 8846 8918 11387 11396 13297 17907
CEP	2869 3413 4657 5547 5574 6673 8843 10057 11282 13300 17904
CWP	2998 3455 4666 5652 5661 6532 6562 8903 10081 11384 13300 17904
EA	3016 3485 3491 5655 5670 6571 8897 10042 11396 13297 13303 13309 17907
EUR	3479 5661 6598 10084 13288 17961
INO	3476 5634 8879 13306 17961
MID	2944 2992 3467 3473 4669 5658 5667 6625 6631 8918 8951 10018 11375 13288 13312 17961
NAT	2872 2899 2962 2971 3016 3476 4675 5598 5616 5649 6622 6628 8825 8831 8864 8879 8891 8906 11279 11309 11336 13291 13306 17946
NCA	3004 3019 4678 5646 5664 6592 10096 13303 13315 17958
NP	2932 5628 6655 6661 10048 11330 13300 17904
SAM	2944 3479 4669 5526 6649 8855 10024 10096 11360 13297 17907
SAT	2854 2935 3452 5565 6535 8861 11291 13315 13357 17955
SEA	3470 3485 5649 5655 6556 8942 10066 11396 13309 13318 17907
SP	3467 5559 5643 8867 10084 11327 13300 17904

RDARAs

1B	2860 2881 2890 3458 3473 3488 5484 5568 6550 6595 10066
1C	2977 2983 3464 3470 4666 5577 5595 6544 8840 11366
1D	2974 2980 2989 3410 3416 3446 4651 5622 5628 5637 6604 6610 8828 10060 11384
1E	2965 3491 5583 6667 10036
2	2938 2950 4696 5556 6583 6601 8846 8855 8888 10015 10045 11297 11360 11390 13321 13357 17964
2A	2851 2863 2869 2875 2881 2887 2896 2917 2926 2932 2941 3416 3422 3434 3440 3455 4657 4672 4690 5481 5490 5496 5502 5523 5547 5559 5604 6526 6532 6547 6553 6559 6565 6574 6673 8822 8876 8909 8939 10048 10054 11276 11285 11294
2B	2857 2869 2875 2881 2887 2896 2902 2908 2914 2920 2929 3401 3407 3416 3422 3428 3449 4660 4672 4681 4690 4693 5490 5496 5502 5508 5520 5526 5550 5574 5595 5607 5613 5619 6526 6532 6562 6568 6577 6655 6661 6667 8819 8834 8864 10009 10024 11279 11333 11339
2C	2857 2863 2866 2884 2893 2902 2908 2914 2920 2926 2932 3401 3407 3428 3434 3440 3449 3455 4657 4660 4681 4693 5481 5487 5508 5514 5520 5526 5550 5562 5574 5586 5604 6535 6541 6547 6553 6562 6568 6577 6586 8819 8834 8882 8939 10009 10024 10054 11276 11333 11372
3	2893 2935 4693 5556 6583 6589 8846 8954 10087 11318 11336 11360 13267 13321 17910

3A	2854 2860 2869 2875 2881 2887 2896 2905 2911 2923 2959 3404 3416 3422 3431 3443 3452 4672 4684 4690 5484 5490 5496 5502 5511 5517 5568 5580 5601 5625 6526 6532 6538 6544 6550 6556 6607 6613 6619 6649 8837 8861 8900 8942 10045 10057 11309 11324 11330
3B	2851 2854 2872 2878 2884 2902 2908 2914 2968 3401 3407 3413 3419 3425 3431 3437 3443 4657 4681 5493 5499 5505 5514 5520 5526 5550 5562 5580 5601 6529 6538 6544 6559 6568 6577 6595 6625 6631 8822 8852 8861 8879 8957 10024 10039 11285 11291 11327 11372
3C	2851 2860 2866 2878 2905 2950 2974 2980 2986 3404 3410 3419 3425 3452 4684 5484 5514 5562 5568 5586 5637 5643 6550 6556 6595 6658 6664 6670 8837 8852 8894 8915 10039 11291 11303 11324 11378
4	6565 8873 13300 17904
4A	2926 2953 3437 3491 4672 5547 5559 6526 6532 6616 8816 8837 8858 10039 10081 11282 11318
4B	2866 2893 3443 5481 5574 5604 6553 6577 6598 10063 11324
5	8870 8885 10012 11312 11327 13354 17949 17967
5A	2986 3452 5577 5583 6544 6664 8822 8915 11288
5B	2911 2968 3431 3488 5511 5568 5625 6550 6595 8912 10093
5C	2905 3452 5583 6544 8822
5D	2899 2971 3482 5526 5550 6535 6547 8843 10048
6	8840 11381 13291 17943
6A	2872 2923 2947 3001 3479 4657 4675 5484 5580 5601 6607 6613 6658 8891 8906 8948 10006 10051 10081 11321 11357
6B	2857 2920 3479 3488 5502 5595 5625 6607 6613 6619 8864 8885 10021 10093 11339 11366 17955
6C	2881 2956 3473 4651 5550 5580 6544 6631 8834 8918 10015
6D	2866 2884 3416 5490 5520 5568 5574 5631 6550 6568 6577 6595 8882 8957 11309 11372
6E	2854 2872 2917 3001 3443 4657 4675 5514 5526 5550 6583 6655 6661 8861 8906 8909 10036 10051 10084 11357 11363
6F	2926 2941 3434 3440 5496 5508 6526 6667 8864 8939 10060 11279 11366
6G	2869 2875 2890 2896 2899 2902 2911 2917 2938 2953 2962 2968 2971 2977 2983 2989 2995 3413 3422 3431 3437 3446 3449 3464 3482 4651 4663 4669 4672 4690 4696 5481 5487 5493 5499 5505 5511 5517 5523 5547 5553 5559 5565 5571 5577 5583 5592 5598 5604 5610 5616 5622 5628 5634 5640 6529 6535 6541 6547 6553 6559 6565 6574 6580 6586 6598 6604 6610 6616 6622 6628 6634 6649 6652 6673 6682 8816 8825 8831 8843 8858 8867 8870 8873 8888 8912 8960 10018 10054 10063 11276 11282 11288 11294 11300 11306 11315 11369 13270 13276 17913
7	5508 6586 8888 11285 13354
7B	2863 2965 3455 5577 5583 6652 8906 10009
7C	2950 3407 5592 6568 6604 8834 10081 11294
7D	2998 5481 10096
7E	2887 3485 5520 6580 6628 8864 11306
7F	2956 3461 5547 5568 6622 8846 8960
9	4696 5583 6553 8846 8852 10018 11339
9B	2860 2905 2929 3401 3419 3425 3476 4660 5484 5508 5523 5565 6538 6547 6598 6622 8819 8837 8861 8906 10009 10024 10039 11393
9C	2851 3404 3461 4675 5481 6580 8873 10042 11279 11312
9D	3016 3404 5592 6535 8873 11312
10	4696 5454 5604 6553 8819 8834 10006 10012 11333 11390 13285 17910

10A	2866 2875 2911 2944 2956 2992 3449 3470 5472 5475 5484 5490 5496 5565 5631 6535 6580 6604 8855 8876 10066 11357 11363 11375
10B	2854 2860 3404 3467 3488 4651 4666 4681 4690 4693 5460 5466 5553 5568 5583 6547 6574 6598 8837 8903 8939
10C	2926 2965 3491 4660 4669 5457 5481 5487 5502 5562 5595 6541 6556 6568 8867
10D	2893 2935 3419 3425 3458 4666 4669 4678 5472 5475 5484 5490 5496 5586 5625 6535 6544 6562 8858 8900
10E	2869 2944 2992 3446 3473 4651 4666 4684 5460 5481 5559 5577 6547 6598 8843 8954 11276
10F	2950 4663 5451 5526 6673 8945 10042
11B	2851 2878 3004 3019 3410 3428 3434 3443 4672 5451 5463 5469 5508 5514 5523 5571 6538 6550 6559 6565 8822 8885 8912 10045 10093 11288 11306 13312 17964
12	3440 5568 10054 17901
12A	2950 5604
12C	2920 2980 3401 3464 4693 5460 5484 5490 5496 5502 5589 5613 6535 6571 6592 6622 6628 8816 8948 8957 10021 10039 11324
12D	3407 5562 6673 8876 10015
12E	2860 2956 2998 3461 3488 4681 5454 5475 5481 5487 5583 5595 5604 6547 6553 6598 8852 8873 10063 10090 11381 11393
12F	2893 2956 2965 2998 3461 3488 5451 5475 5508 5556 5583 5604 6532 6553 8873 8894 10090 11297
12G	2875 2956 2998 3461 3488 5484 5523 5559 5646 6526 6616
12H	2956 2998 3461 3488 5451 5583
12J	2860 2902 2926 2965 3419 5481 5496 5619 6535 6547 8954 11381 11384
13	13318 17913
13A	10048 17967
13B	10048 17967
13C	2863 2869 2992 3413 3458 3473 5490 5514 5553 5571 5577 6541 6556 6562 6568 6580 8819 8834 8843 8939 10042 11327 11375 13309
13D	2914 2983 3425 3467 4660 5460 5562 6622 6628 6673 8867 8912 8957 10084 11318
13E	2851 3491 4651 4663 5481 5583 5604 6553 6577 8858 11303 17967
13F	2851 2956 2998 3446 3476 4651 4663 5454 5481 5583 5604 6547 6553 8831 8858 8864 10081 11321 11330 17967
13G	2872 2971 3016 3434 3470 4675 5469 5475 5574 6586 6613 8822 8885 8900 10006 10021 10036 11369
13H	2899 2965 3455 3485 4657 5463 5472 5484 5547 6598 8825 8906 10036 10045 11282 11300 13267
13I	2860 2878 2887 3419 4678 4693 5451 5466 5496 5523 6574 8873 10051
13J	2857 2863 2878 2890 2920 3410 3428 3458 4684 4696 5451 5454 5559 5568 5577 6550 6559 6580 8816 8843 10012 10018 10042 11276
13K	2863 2932 3004 3019 3401 3458 3464 4663 4672 5463 5481 5547 5577 5604 6547 6553 6580 8843 8849 8945 10009 10018 10042 10060 11339 11366 13309
13M	2908 2977 3437 3449 4660 4690 5463 5502 6574 6628 8837 8867 8903 10066 11378
13N	2986 3443 5457 5508 6604 8828 10093
14	2851 2878 3446 3461 3479 5526 5604 6580 6628 8822 8855 8870 10045 10087 11360 13264 17946
14A	2950 3413 4678 6547 6553 8816 8894
14B	3488 4684 6535 6604 6673 8900 8954

14C	2887 3452 4684 6541 6586 8885 8912
14D	2950 3407 4693 5481 6559 6574 8843 8858
14E	3413 6565 6616 8891 8945
14F	3488 6526 6610 8825 8831
14G	2869 2944 4678 5481 5550 5580 8876 8957

VOLMET areas

VAFI	2860 3404 5499 6538 8852 10057 13261
VCAR	2950 5580 11315
VEUR	2998 3413 5505 6580 8957 11378 13264
VMID	2956 5589 8945 11393
VNAT	2905 3485 5592 6604 8870 10051 13270 13276
VNCA	3461 4663 5676 10090 13279
VPAC	2863 6679 8828 13282
VSAM	2881 5601 10087 13279
VSEA	2965 3458 5673 6676 8849 11387 13285

Worldwide allotment areas

W I	3010 4654 4687 5529 5532 5535 5541 6637 6643 8921 8924 8930 8936 10027 10030 10069 10072 10078 11345 11351 13324 13327 13333 13336 13342 13345 13351 17916 17922 17931 21940 21946 21952 21958 21967 21973 21979 21988 21997
W II	3007 3013 3494 3497 4654 4687 5529 5538 5544 6637 6640 6646 8927 8933 8936 10027 10033 10075 11342 11348 11354 13330 13339 11354 13330 13339 13348 17919 17925 17934 17940 21964 21985
W III	3007 4687 6637 8921 8930 10072 10078 11342 11351 13324 13333 13342 13351 17916 17922 17928 17934 17940 21949 21970
W IV	3010 5535 5541 6643 8924 10030 10069 11345 13327 13336 13345 17919 17928 17937 21955 21976
W V	3013 5532 5538 5544 6640 6646 8927 8933 10033 10075 11348 11354 13330 13339 13348 17925 17931 17937 21943 21961 21982 21994

20.6 Frequencies for common use

AP27.208 The carrier (reference) frequencies 3023 kHz and 5680 kHz are intended for common use on a world-wide basis.

AP27.209 The use of these frequencies in any part of the world is authorized:

- aboard aircraft for

a) communications with approach and aerodrome control;

b) communication with an aeronautical station when other frequencies of the station are either unavailable or unknown;

- at aeronautical stations for aerodrome and approach control under the following conditions:

a) with mean power limited to a value of not more than 20 watts in the antenna circuit;

b) special attention must be given in each case to the type of antenna used in order to avoid harmful interference;

c) the power of aeronautical stations which use these frequencies in accordance with the above conditions may be increased to the extent necessary to meet certain operational requirements subject to coordination between the administrations directly concerned and those whose services may be adversely affected.

AP27.210 Notwithstanding these provisions, the frequency 5680 kHz may also be used at aeronautical stations for communication with aircraft stations when other frequencies of the aeronautical stations are either unavailable or unknown. However, this use shall be restricted to such areas and conditions that harmful interference cannot be caused to other authorized operations of stations in the aeronautical mobile service.

AP27.211 Additional particulars regarding the use of these channels for the above purposes may be recommended by the meetings of ICAO.

AP27.212 Frequencies 3023 kHz and 5680 kHz may also be used by stations of other mobile services participating in coordinated air-surface search and rescue operations, including communications between these stations and participating land stations. Aeronautical stations are authorized to use these frequencies to establish communications with such stations.

AP27.213 These channels may be used for A1A or A3E emissions, in accordance with special arrangements. Such channels shall not be subdivided.

AP27.214 All stations participating directly in coordinated search and rescue operations and using frequencies 3023 kHz and 5680 kHz shall transmit solely on the upper sideband except in the cases provided for in AP27.50 . ☺

21 Maritime Mobile Service regulations

21.1 Introduction

The most extensive frequency transition in the MMS during the nineties will take place on 0001 UTC 01 JUL 1991. At this time, the partial revision of the new and modified RRs of MOB-87 concerning the HF bands enters into force (see chapter 2.7).

Coast and ship stations will change their SSB transmitting and receiving frequencies to the replacement frequencies indicated for the same channel number in Table 1 (see the attached folders at the end of this reference book). Example: GKT 51 Portishead R, G, transmitting on 13100.8 kHz (channel 1201), will change to 13077.0 kHz.

Coast and ship stations using paired NBDPT RTTY transmitting and receiving frequencies will change to the same channel number in Table 2B. Example: 9VG 82 Singapore R, SNG, transmitting on 17197.5 kHz (channel 1), will change to 16807.0 kHz.

The remaining MMS sub-bands are used for CW and FAX, for wideband telegraphy, for special and data transmission systems, and for direct-printing telegraphy systems. MOB-87 has not established a channelling or transition arrangement for these bands.

This is the theory. In practice, from our decades of experience with bureaucratic and incompetent NTAs all over the world, we expect a little chaos around the middle of the year. Consequently, we have decided to wait and see what really happens. The new channelling plans will be included in the next edition of our GUIDE TO UTILITY STATIONS. Needless to say, we will carry out another monitoring mission in the second half of 1991 and publish the results accordingly. If you are able to supply some information about the situation after 01 JUL 1991, your cooperation would be appreciated. Please let us have your material until 30 SEP 1991.

21.2 Bands up to 4 MHz

In Region 1, frequencies assigned to maritime stations operating in the bands between 1606.5 kHz and 3800.0 kHz should, whenever possible, be in accordance with the following table:

1606.5 - 1625.0*	coast stations, NBDPT, DSC; channels spaced 0.5 kHz and frequencies paired with those marked * below
1635.0 - 1800.0**	coast stations, SSB; channels spaced 3.0 kHz and frequencies paired with those marked ** below; first channel = 1635.0 kHz
1850.0 - 1950.0	coast stations, SSB; channels spaced 3.0 kHz; first channel = 1851.0 kHz
1950.0 - 2045.0	ship stations, SSB; channels spaced 3.0 kHz; first channel = 1951.0 kHz
2045.0 - 2141.5**	ship stations, SSB; channels spaced 3.0 kHz and frequencies paired with those marked ** above; first channel = 2045.0 kHz
2141.5 - 2160.0*	ship stations, NBDPT, DSC; channels spaced 0.5 kHz and frequencies paired with those marked * above
2194.0 - 2262.5	ship stations, SSB; channels spaced 3.0 kHz; first channel = 2195.0 kHz
2262.5 - 2498.0	intership, SSB; channels spaced 3.0 kHz; first channel = 2263.0 kHz
2502.0 - 2578.0	ship stations, NBDPT; channels spaced 0.5 kHz; first channel = 2502.5 kHz
2578.0 - 2850.0	coast stations, NBDPT, SSB; channels spaced 0.5 kHz; first channel = 2578.5 kHz - or: channels spaced 3.0 kHz; first channel = 2579.0 kHz
3155.0 - 3200.0	ship stations, NBDPT; channels spaced 0.5 kHz; first channel = 3155.5 kHz
3200.0 - 3340.0	ship stations, SSB; channels spaced 3.0 kHz; first channel = 3201.0 kHz
3340.0 - 3400.0	intership, SSB; channels spaced 3.0 kHz; first channel = 3340.0 kHz
3500.0 - 3600.0	intership, SSB; channels spaced 3.0 kHz; first channel = 3500.0 kHz
3600.0 - 3800.0	coast stations, SSB; channels spaced 3.0 kHz; first channel = 3601.0 kHz ☺

22 Standard telegram format regulations

22.1 Introduction

Radiotelegraphy is still used for many fixed circuits. The telegrams are transmitted in a standard telecommunication format.

Telegram examples given in this chapter are only intended to illustrate the correct formatting of telegrams. The texts are fictious. Groups such as NATO routing indicators, channel indicators, destination and origin indicators do not necessarily reflect current usage or routing arrangements in the telegraph offices concerned.

For service codes and abbreviations see chapter 23. For the message formats used in aeronautical and meteorological communication see our AIR AND METEO CODE MANUAL.

22.2 Message format

A telegram comprises
- the heading, which shall include the information needed for identification and, if necessary, for the routing of the telegram;
- the address (including the service indication, if any);
- the text (including the signature, if any);
- the routine repetition (if required);
- the end-of-message signals.

First part: **HEADING**

The heading of a telegram consists of
- the numbering line, containing
  - the start signal *ZCZC* ;
  - the channel sequence number(s) consisting of the 3-letter channel indicator and the 3-figure message number on the channel;
  - the telegram identification group (consisting of up to 15 characters);

- the pilot line (where it is required), containing
  - the four-letter destination indicator (see 22.3);
  - the two-letter priority and tariff indicator (see 22.4);
  - the four-letter origin indicator (see 22.3);
  - the 3-figure number of chargeable words (taken from the preamble line);
  - the customer identification group (if any) (any combination of letters and/or figures, for accounting purposes);

- the preamble line, containing
  - the name of the office of origin as it appears in the first column of the List of Telegraph Offices;
  - the number of words. When the number of chargeable words is the same as the number of actual words, it shall be shown as a single number. When the number of chargeable words is different from the number of actual words, both shall be shown, separated by a fraction bar with the number of chargeable words first;
  - the date (2-figure group) and time (4-figure group) of handing in of the telegram;
  - the service instructions (if any).

Second part: **ADDRESS**

The address of a telegram consists of
- the service indications, if any;
- the address.

Third part: **TEXT**

The text of a telegram must be continuous and written in characters that have an equivalent in the standard teleprinter alphabet ITA2 (see chapter 5 in our RADIOTELETYPE CODE MANUAL). A signature shall not be compulsory.

Fourth part: **END-OF-MESSAGE SIGNALS**

Ending signal *NNNN*

22.3 Destination indicators

A destination indicator must be assigned to each office directly concerned with the telegram retransmission system. Offices handling a large amount of international traffic should also be assigned a destination indicator. In each country at least one destination indicator (an "all others" indicator) must be chosen for offices not assigned their own destination indicator.

Each destination indicator consists of four letters. The first two letters characterize, in a uniform way, a particular destination country or a particular network in the destination country. The third and fourth letters characterize the office of destination in that country or network.

Particular combinations:

..MV	The combinations *MV* , *SV* , *XQ* and *YQ* as the third and fourth letters of indicators should preferably be reserved for the segregation of particular types of telegram at gateway cities or at major international telegraph offices
..SV	(see ..MV)
..XQ	(see ..MV)
..XX	Where there is only one indicator for all offices in a country, the last two letters should be *XX*
..YQ	(see ..MV)
...X	The last letter of an "all others" indicator will always be X
..ZZ	Destination indicators having *ZZ* as the third and fourth letters should be strictly reserved for automatic service advices, which are designed to trigger an automatic action at a connected telegram retransmission centre
XQXQ	The destination indicator *XQXQ* is reserved for use in emergency broadcast messages concerning a total system failure

A...	Austria
AA..	Australia
AB..	Albania
AD..	Yemen
ADAN	Aden
AF..	Afghanistan
AFKL	Kabul
AK..	Antigua and Barbuda
AN..	Angola
AR..	Argentina
AV..	Ascension
B...	Belgium
BA..	Bermuda
BC..	Benin
BD..	Botswana
BEAN	Antwerpen
BEB.	Brussels
BG..	Bulgaria
BI..	Guinea-Bissau
BJ..	Bangla Desh
BJCG	Chittagong
BJD.	Dhaka
BM..	Burma
BN..	Bahrain
BP..	Bophuthatswana
BR..	Brazil
BS..	Bahamas
BU..	Brunei
BV..	Bolivia (ENTEL)
BZ..	Belize
C...	Czechoslovakia
CA..	Canada (except TWX)
CB..	Chile (ENTEL)
CE..	Sri Lanka
CH..	Switzerland
CI..	Ivory Coast
CK..	Chile (TC)
CL..	Chile (Telex Chile)
CN..	China
CNDR	Dairen
CNKC	Kwangchow
CNQD	Qingdao
CNSH	Shanghai
CNTT	Tientsin
CO..	Colombia
CP..	Cayman Islands
CR..	Costa Rica
CSP.	Prague
CT..	Chile (TEXCOM)
CU..	Cuba
CV..	Cape Verde
CX..	Ciskei
CY..	Cyprus
CYNC	Nicosia
CZ..	Chile (ITTCHL)
D...	Germany
DG..	Diego Garcia
DH..	Qatar
DI..	Dominican Republic (AACR)
DJ..	Jibuti
DK..	Denmark
DKCN	Copenhagen
DO..	Dominica
DR..	Dominican Republic (RCA)
DZ..	Algeria
E...	Spain
ED..	Ecuador
EG..	Equatorial Guinea
EI..	Ireland
EM..	United Arab Emirates (EMIRTEL)
ESBA	Barcelona
ESBL	Bilbao
ET..	Ethiopia
ETAD	Addis Ababa
F...	France
FA..	Faroe Islands
FG..	Guiana (French)
FJ..	Fiji
FK..	Falkland Islands (Malvinas) and Dependencies
FL..	Liechtenstein
FP..	Polynesia (French)
FRP.	Paris
G...	United Kingdom
GA..	Grenada
GBBD	Bradford
GBBM	Birmingham
GBGW	Glasgow
GBL.	London
GBMR	Manchester
GBPS	Portishead Radio
GD..	Greenland
GE..	Guinea
GECY	Conakry
GH..	Ghana
GK..	Gibraltar
GL..	Guadeloupe
GM..	Guam (RCA)
GO..	Gabon
GR..	Greece
GRAS	Athens
GU..	Guatemala
GV..	Gambia
GY..	Guyana
H...	Hungary
HI..	Haiti
HL..	Saint Helena
HM..	Hawaii (AACR)
HO..	Honduras
HQ..	Solomon Islands
HR..	Hawaii (RCA)
HUBU	Budapest
HW..	Hawaii (WUI)
HX..	Hong Kong
I...	Italy
IA..	Indonesia
IK..	Iraq
IKB.	Baghdad
IL..	Israel
ILHA	Haifa

ILJM	Jerusalem
ILT.	Tel Aviv
IN..	India
INB.	Bombay
INCA	Calcutta
INMS	Madras
INND	Delhi
IR..	Iran
IRTN	Tehran
IS..	Iceland
ITBG	Bergamo
ITBI	Biella
ITBS	Brescia
ITMI	Milano
ITNA	Napoli
ITPS	Pesaro
ITR.	Rome
IW..	Mauritius
J...	Japan
JA..	Jamaica
JO..	Jordan
JPO.	Osaka
JPT.	Tokyo
K...	Korea (Republic of)
KA..	Cambodia
KC..	Saint Kitts and Nevis
KD..	Chad
KE..	Kenya
KG..	Congo
KI..	Kiribati
KN..	Cameroon
KO..	Comoros
KP..	Korea (Democratic People's Republic of)
KT..	Kuwait
LA..	Anguilla
LC..	Saint Lucia
LE..	Lebanon
LEBH	Beirut
LELE	Beirut
LETR	Tripoli
LI..	Liberia
LO..	Lesotho
LS..	Laos
LU..	Luxembourg
LY..	Libya
LYBE	Benghazi
M...	Morocco
MA..	Malaysia
MC..	Monaco
ME..	Mexico
MF..	Maldives
MG..	Madagascar
MH..	Mongolia
MI..	Malawi
MJ..	Mali
MK..	Montserrat
MN..	Marianas (Northern)
MO..	Mozambique
MQ..	Mauritania
MR..	Martinique
MS..	Marshall Islands
MT..	Malta (GTC)
MW..	Malta (TELEMALTA)
N...	Norway
NA..	Netherlands Antilles
NE..	Papua New Guinea
NF..	Niue Island
NG..	Nigeria
NGJS	Jos
NGKD	Kaduna
NGKN	Kano
NGL.	Lagos
NGMG	Maiduguri
NGZA	Zaria
NH..	Vanuatu
NI..	Niger
NINY	Niamey
NL..	Netherlands
NLAM	Amsterdam
NLRM	Rotterdam
NM..	New Caledonia and Dependencies
NOOO	Oslo
NP..	Nepal
NU..	Nicaragua
NV..	Norfolk Island
NZ..	New Zealand
OM..	Macao
OMMA	Macao
ON..	Oman
P...	Portugal
PA..	Panama (TRT)
PB..	Puerto Rico (TRT)
PCOO	Porto
PD..	Puerto Rico (AACR)
PE..	Peru
PG..	Panama (INTEL)
PH..	Philippines (PHILCOM)
PK..	Pakistan
PL..	Poland
PLGD	Gdynia
PLLO	Lodz
PLWA	Warsaw
PM..	Philippines (ITT Globe-Mackay Cable and Radio Corporation)
PN..	Philippines (ETPI)
PP..	Puerto Rico (WUI CARIB)
PS..	Philippines (CAPWIRE)
PT..	Puerto Rico (RCAC)
PU..	Philippines (Philippine Telegraph and Telephone Corporation)
PY..	Paraguay
QN..	Saint Pierre and Miquelon
R...	Romania
RC..	Central African Republic
RE..	Reunion
RG..	Cook Islands
RMBU	Bucharest
RS..	Singapore
RSSE	Singapore

RW..	Rwanda
RWKI	Kigali
S...	Sweden
SA..	South Africa (Republic of)
SB..	Samoa (American)
SD..	Sudan
SDK.	Khartoum
SDPS	Port Sudan
SE..	Sierra Leone
SF..	Finland
SFHE	Helsinki
SG..	Senegal
SGD.	Dakar
SJ..	Saudi Arabia
SM..	Somalia
SN..	Suriname
SO..	San Marino
SR..	El Salvador
ST..	Sao Tome and Principe
SU..	Union of Soviet Socialist Republics
SUKV	Kiyev
SUM.	Moscow
SUOO	Odessa
SUTB	Tbilisi
SX..	Samoa (Western)
SY..	Syria
SYAL	Aleppo
SYD.	Damascus
SYLA	Lattakia
SZ..	Seychelles
TA..	Tanzania
TH..	Thailand
THBK	Bangkok
TL..	Tokelau Islands
TN..	Tunisia
TO..	Togo
TQ..	Turks and Caicos Islands
TR..	Turkey
TRIS	Istanbul
TS..	Tonga
TT..	Transkei
TV..	Tuvalu
UA..	Alaska (RCA)
UB..	United States of America (Graphnet Corporation)
UD..	United States of America (Western Union Telegraph Company)
UF..	United States of America (FTCC Telecommunications)
UG..	Uganda
UI..	United States of America (ITT)
UINY	New York
UN..	Egypt
UNAA	Alexandria
UNC.	Cairo
UQ..	United States of America (TWX)
UR..	United States of America (RCA)
UT..	United States of America (TRT)
UU..	Burundi
UUJU	Usumbura
UV..	Bourkina Faso
UTMI	Miami
UW..	United States of America (WUI)
UY..	Uruguay
VA..	Vatican City State
VAVS	Vatican City
VB..	Virgin Islands (British)
VC..	Venezuela
VM..	Venda
VN..	Virgin Islands (United States)
VQ..	Saint Vincent and the Grenadines
VT..	Viet Nam
VTHA	Hanoi
WB..	Barbados
WD..	Swaziland
WF..	Wallis and Futuna Islands
WG..	Trinidad and Tobago
WK..	Namibia
X...	INMARSAT
YE..	Yemen
YU..	Yugoslavia
YUB.	Belgrade
YULJ	Ljubljana
YUZB	Zagreb
ZA..	Zambia
ZALU	Lusaka
ZR..	Zaire
ZV..	Nauru
ZW..	Zimbabwe

22.4 Priority and tariff indicators

Each priority and tariff indicator consists of two letters. The first letter characterizes the priority class and the second letter characterizes the tariff class of the telegram.

First letter: **priority class**

A	SVH telegrams
B	ETATPRIORITE telegrams OBS telegrams

	ordinary private telegrams with urgent transmission and delivery
	paid service advices
	press telegrams with urgent transmission and delivery
	RCT telegrams with urgent transmission and delivery
	service advices with urgent transmission and delivery
	service telegrams with urgent transmission and delivery
C	government telegrams
	ordinary private telegrams
	press telegrams
	RCT telegrams
	service advices
	service telegrams
	telegrams giving confirmation of delivery
H	letter telegrams (including government letter telegrams)

Second letter: **tariff class**

D	press telegrams with urgent transmission and delivery
J	POSTFIN telegrams
K	government telegrams where preferential rate is to be charged
L	letter telegrams
M	meteorological telegrams
N	non-chargeable telegrams
O	ordinary private telegrams
P	press telegrams
Q	telegrams involving special accounting features
R	RCT telegrams
U	telegrams (other than RCT and press telegrams) with urgent transmission and delivery
V	divided telegrams
X	for use by transit offices when inserting the pilot line on transit telegrams
Y	government full-rate telegrams
Z	government letter-rate telegrams

22.5 Examples on standard telegrams

Ordinary private telegram with service indication

```
zczc aoe262 ldb814 pld606
aasd co gbld 018
london/ld 18/16 22 1430



lx
harris 2462 southernhighway
sydney



congratulations on your promotion and best wishes for the future
    john



nnnn
```

zczc	start signal
aoe262	channel sequence number: message number 262 on channel AOE
ldb814 ...	preceding channel sequence numbers: message number 814 on channel LDB; message number 606 on channel PLD
aasd	destination indicator: Australia, Sydney
c	priority indicator: class C, ordinary private telegram
o	tariff indicator: class O, ordinary private telegram
gbld	origin indicator: United Kingdom, London
018	number of chargeable words: 18
london/ld	name of the office of origin as it appears in the first column of the List of Telegraph Offices: LONDON/LD
18	number of chargeable words: 18
/16	number of actual words: 16
22	date: 22nd day of the month
1430	time: 1430 legal time
lx	service indication: de luxe form
harris ...	address
...	
congrats...	text
...	
nnnn	ending signal

Multi-page telegram

```
zczc gwb608 mka296 azt044
gblv hl urny 076
new york 76/72 10 1826 page 1/50


lt
soapbox
liverpool


00503 your telegram modev6 of march 1 for graduate volunteers grateful for what you propose
stop would only press for third category named if results of recruitment permitted but for
practical reasons would be glad if they did so please telegraph prospects for export activity
distribution arrangements


azt044 soapbox page 2/22


urgent x can we ship 5000 lbs k685 ex puk on braemar sailing london march 18 x cable
mackenzies kampala immediately
    smithco




nnnn
```

Service note for a situation report

```
zczc xq
gxxq bn frxq 000
paris 09 1031


lrls lpa130 pla444
lpb870 plb009
missing lpa040/043


nnnn
```

Service note requesting automatic re-run of one message

```
zczc xq
dpxq bn frxq 000
paris 21 0926


rrun bca165


nnnn
```

22.6 Examples on standard military teletype messages

As in most telex networks, you cannot deduce the location of the station actually monitored from the heading of the messages (see second example).

For NATO routing indicators see chapter 7.

```
zczc afl040
oo rffa
de rftjf 3111707
znr uuuuu


zic afl03


nnnn
```

zczc	start signal
afl040	channel sequence number: message number 40 on channel AFL (ARQ-E3 channel from FF Port Bouet to MOD Paris on 17550.9 kHz, see chapter 3.3)
oo	priority indicator: operational message
rffa	NATO routing indicator of the destination: MOD Paris, F
de	from
rftjf	NATO routing indicator of the origin: FF Port Bouet, CTI
3111707	date-time group: 1707 UTC on the 311th day of the year
znr uuuuu	secrecy classification: unclassified
zic ...	text
nnnn	ending signal

In this case, not 'RFLID' has been monitored, but 'RFLI' relaying a message to 'RFFZZ' via 'RFFA' because there is no direct circuit 'RFLID' - 'RFFZZ'.

```
zczc ali317
pp rffzz
de rflid 0013 3091551
znr uuuuu
p 051550z nov 90 zyb
fm escalair pointe a pitre
to air escadron orleans
d i f f u s i o n   r e s t r e i n t e
mca texte
nmr 3375/etom 058/cdt/tech/dr du 05 nov 90
obj/limite fatigue de la structure transall
ref/msg nmr 101/61eme etom ops du 01 nov 90
txt
pour operation 61eme etom
primo/c160 nmr 54
alpha/hc totales 1008715
bravo/att 10033
charlie/heures depuis gv 110855
delta/heures basses altitude 10900
secundo/c160 nmr 12
alpha/hc totales 1055420
bravo/att 9852
charlie/heures depuis gv 106715
delta/heures basses altitude 10350
bt
0007



nnnn ☺
```

23 Service codes and abbreviations used in gentex and telex operation

A	Service telegrams *or* advices
ABS	Telegraph office closed
ADD	Please input your international telex number
ADRS	Address
AMPLIATION	Telegram sent a second time
ANH	Congestion
ANUL ...	Delete ...
BK	I cut off
BL	Holding
BL ... SVP	Please hold ...
BMC	No end of message or end of transmission received, therefore message cancelled
BR TR ...	Bad transmission on ...
CALL NR	National call number of a gentex office
CCT ... IN	I have restored circuit No. ...
CCT ... IN SVP	Please restore circuit No. ...
CCT ... OUT	I have taken circuit No. ... out of service
CCT ... OUT SVP	Please take circuit No. ... out of service
CI	Conversation impossible
CK	Please check number of words
CLA	Class of telegram
CONFERENCE	Franking privilege telegrams (ITU)
CRD ...	The connection is released after selection on circuit No. ...
CRV	How do you receive?
CSR	I am receiving your calling signal
CTF	Correction to follow
DBL	Double word(s)
DEB	Overflow position
DER	Out of order
DERA	Machine faulty
DER CCT	Circuit faulty
DER MOM	Bad reception, do not cut off, we are testing the line
DERPS	Position equipment faulty
DERR	Fault now cleared
DER REG	Register does not operate
DER TAPE	Your perforated tape is faulty
DER VF ...	Fault on voice-frequency system ...
DETR ...	I am re-routing to ... *or* Re-route to ... *or* Alternative route?
DEVD	Deviation of distributor speed at your end
DEVS ...	Speed deviation is ... %
DF	You are in communication with the called subscriber
... DIS ...	The distortion on ... is ... %
DS ...	Distribution switched over to ...
DTE	Date of handing-in
EDIS ...	The transmitter distortion is ... %
ETA	Government telegrams
ETATPRIORITE	Government telegrams *or* telegrams relative to the application of the United Nations Charter
FAXx	Facsimile delivery (x = *facsimile number*)
FMT	Format error
FVS	Fives
GENTEX	International switched network for the public telegram service
IAB	Invalid answerback from destination
ICI ...	Here is ...

IMA	Input message acknowledgement
IND	Answer-back code
INF	Subscriber temporarily unobtainable, call the information service
INQ	Position specializing in the handling of service notes and advices
ITD	Input transaction accepted for delivery
ITL	I transmit later
JFE	Office closed because of holiday
Jx	Period of retention of radiotelegrams at land stations (*x* = *number of days*)
LDE	Maximum acceptable message length or duration has been exceeded
LOOP …	I have looped circuit …
LOOP … SVP	Please loop circuit …
LT	Letter telegrams
LTF	Government letter telegrams
LX	De luxe form
LXDEUIL	De luxe form of condolence
MAR …	The margin is … %
MEET …	Meet me on circuit No. …
MNS	Minutes
MOM	Please wait!
MOM PPR	Please wait! I have paper trouble
MUT	Mutilated
NA	Correspondence with this subscriber is not admitted
NA BK	Correspondence with this telegraph office is not admitted. I cut off
NARQ …	Multiplex … unprotected; please re-establish automatic request for repetition (ARQ)
NBL …	Clearing …
NBL … SVP	Please clear …
NC	No circuit
NCFM …	No call-confirmation signal on …
NCH	Number changed
NCS …	No call-connected signal from …
NDER	No fault found
NDN	Non-delivery notification
NI	No line identification available
N IND	I am not receiving your answer-back code
NOT R	Not received
NP	The called number is not *or* no longer in use
N PER A	I am not receiving your permanent start polarity signal
N PER Z	I am not receiving your permanent stop polarity signal
NPS	I am not receiving your proceed-to-select signal
NR	Indicate your call number *or* my call number is …
OBS	Meteorological telegrams
OCC	Busy
OCC OCC …	Permanent busy signal from …
O/D	Telegraph office of destination
OMTD	Omitted
O/O	Telegraph office of handing-in
OPH …	Out of phase on system …
PER A …	Permanent start polarity on …
PER A … SVP	Please send permanent start polarity on …
PER Z …	Permanent stop polarity on …
PER Z … SVP	Please send permanent stop polarity on …
PERC …	Permanent call on …
PH …	Please phase system …
POSTFIN	Postal financial services telegrams
PPR	Paper
QDIS …	Please mesure distortion on …
Q DIS A	Is there bias distortion (prolonged start polarity) on the received signals?
Q DIS Z	Is there bias distortion (prolonged stop polarity) on the received signals?

QGA	May I transmit?
QOK	Do you agree?
QRCS	Are your receiving my calling signal?
QREF	Please give reference number
QRES	Please report result
RAFSO	Second application
RAP	I shall call you again
RAP ... MNS	I shall recall you in ... minutes
RAP ... MNS SVP	Please call me in ... minutes
RCT	Telegrams concerning persons protected in time of war by the Geneva Conventions of 12 August 1949
RDI	Redirected call
REF	Reference of the message delivered to the telex side from a conversion facility for telex/teletex interworking
RES ...	Here is the result of test on ...
RFC ...	I am receiving errors in 5-unit code. Please check channel No. ...
RMUT ...	I am receiving garbled signals on multiplex channel ... Please check your 7-unit code
ROUTE	Route to ... *or* I am routing for ... *or* Route?
RPFR	Please prepare your reperforator
RPFR TXT	Prepare your reperforator because of long or difficult text or because of telegrams having the same text
RPT AA ...	Repeat all after ...
RPT AB ...	Repeat all before ...
RPT ALL	Repeat the whole telegram
RPT BN ...	Repeat all between ... and ...
RPT SRL NR ...	Repeat reference number given by the transmitting office ...
RPT TG NR	Repeat telegram number
RPT TXT	Repeat text
RPT WA ...	Repeat word after ...
RPT WB ...	Repeat word before ...
RQFS ...	Your repetition cycle transmission contains 7-unit code faults. Please check channel No. ...
RS ...	Reception switched over to ...
RSBA	Retransmission still being attempted
SIG 1/1 SVP	Please send 1:1 signals
SIG 2/2 SVP	Please send 2:2 signals
SRL NR	Reference number given by a gentex transmitting office
SS ...	Storage switched over to ...
SSSS	Change of alphabet
SVH	Telegrams relating to the safety of life
SVIN	Service indication
SVP	Please
TAX	What is the charge *or* The charge is ...
TCHN	Technical service *or* I shall advise the technical service
TELEX	Subscriber's telegraph service enabling users to communicate directly and temporarily with one another by means of start-stop apparatus
TESTD ... SVP	Please send test message with ... % distortion on ...
TEST MSG	Please send a test message
TFx	Telephone delivery (x = *telephone number*)
TG	Telegram
TG NR ...	Telegram number given by the handing-in office ...
THRU	You are in communication with a telex position
TLXx	Telex delivery (x = *telex number*)
TMA	Maximum number of addresses exceeded
TNS	Tens
TPLE	Triple word(s)
TPR	Teleprinter
TRAS ...	Please send alpha signal on multiplex channel ...

TRBS …	Please send beta signal on multiplex channel …
TRS …	Transmission switched over to …
TTX	Designation of the conversion facility (CF) for telex/teletex interworking
TTXx	Teletex delivery (x = *teletex number*)
URGENT	Urgent transmission and delivery
UTCOD	Use the gentex code
VAL	Validation response
VERED	Please check the transmitter distortion
VERM	Please check the margin
VERS	Please check the speed
VERX …	Please check subscriber No. …
W	Word(s)
WEFXU	Waiting reply to our service advice
WRU	Who is there?
XXXXX	Error signal
ZKWA …	The received signals have … % bias (start polarity prolonged)
ZKWZ …	The received signals have … % bias (stop polarity prolonged)
+?	I have finished my transmission. Do you wish to transmit? ☺

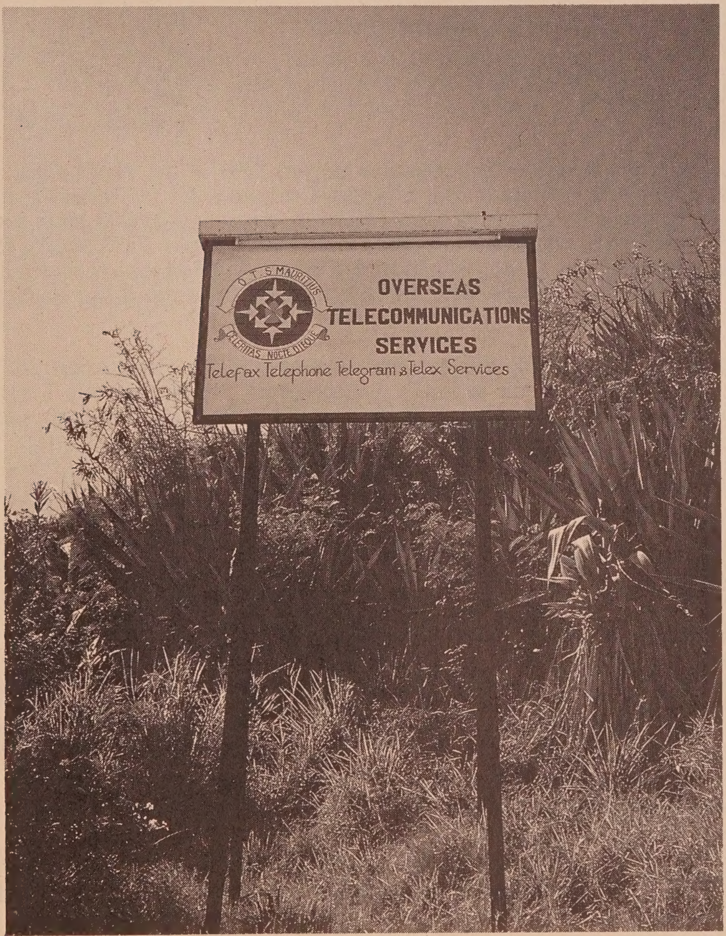
O.T.S. MAURITIUS
CELERITAS NOCTE DIEQUE
OVERSEAS TELECOMMUNICATIONS SERVICES
Telefax Telephone Telegram & Telex Services

Figure 7 - Nameplate of OTS (see page 2)

24 Country list and addresses of utility stations

This list gives for each country in the world its basic telecommunication data, and the utility station addresses available.

The basic data is given on the right of the country name and includes

- the corresponding ITU symbol designating countries or geographical areas (from chapter 25);
- the corresponding international call sign series (from chapter 5);
- the corresponding WMO observing station number series (from chapter 5 in our AIR AND METEO CODE MANUAL);
- the corresponding ICAO location indicator series (from chapter 11 in our AIR AND METEO CODE MANUAL);
- the index (plate and grid numbers) to the corresponding map in the TIMES ATLAS OF THE WORLD.

These entries are separated by strokes. Example:

"PHILIPPINES PHL / DU-DZ 4D-4I / 98000-98999 / RP / 19L4" means

"Philippines

• ITU symbol designating the country or geographical area	PHL
• international call sign series	DU - DZ, 4D - 4I
• WMO observing station number series	98000 - 98999
• ICAO location indicator series	RP
• Times Atlas map index	plate 19 grid L4"

The index refers to the Seventh Comprehensive Edition 1985 of the Times Atlas of the World, which is the finest atlas in the world and thus a standard reference for the serious radio monitor. It covers 122 maps of the size 55 x 42 cm plus an index with more than 200000 place names complete with geographical coordinates, and can be ordered from Klingenfuss Publications for DEM 390 (including packing and postage as an insured parcel in Germany), DEM 420 (Europe) and DEM 430 (World). Write for further details if you are interested, and ask for a pro forma invoice if you want airmail delivery.

Note that our index is completely different from that used in the Times Atlas itself. As a matter of principle, the Times index - as far as states are concerned - indicates only a small-scale map covering a complete continent or region, e.g. Europe on plate 49. Contrary hereto, the Klingenfuss index indicates that large-scale map on which the entire territory of the state is shown. For example, the Solomon Islands are not indexed to the 1 : 55 M plate 9 covering an area from Greenland over Asia and Australia to the Antarctic where they appear infinitely small, but to the 1 : 5 M plate 15 where they can be found in full size.

The addresses may be used for reception reports to stations monitored. They are listed alphabetically in category order.

Category indicators used are

AF	Air Force
AIR	Aeronautical
ALC	Airline Company (listed are all civil companies operating freighters above MTOW 50 tons, and passenger aircraft with more than 70 seats; or the national airline company)
CG	Coast Guard
CY	Company
EMB	Embassy
FF	Foreign Forces
IP	INTERPOL
MAR	Maritime
MET	Meteorological
MFA	Ministry of Foreign Affairs
MIL	Military
NAV	Naval
POL	Police, Gendarmerie
PRS	Press
PTT	Telecommunications Authority
TSF	Time Signal / Standard Frequency
UN	United Nations
•	Other category
**	Name of the verification signer

ADELIE LAND

ADL / see France / 89642 95500-95510 / - / 123D15

AFGHANISTAN

AFG / T6 YA / 40900-40999 / OA / 31B4

AIR General Administration of Civil Aviation; Directorate General of ATS/COM; Ansari Watt; POB 165; KABUL
ALC Ariana Afghan Airlines; Ansari Watt; POB 76; KABUL
PTT Ministry of Communications; State Radio Inspection Department; ITU Office; Director; KABUL

ALASKA

ALS / see United States of America / 70000-70999 / PA / 113

AIR Department of Transportation; Federal Aviation Administration; International Flight Service Station; Anchorage Airadio; 2016 East Fifth Avenue; ANCHORAGE, AK 99501
ALC Alaska Airlines Inc; POB 68900; SEATTLE, WA 98168; USA
ALC Cargomaster Corp; 2401 Chilligan Drive; ANCHORAGE, AK 99503
ALC Markair Inc; POB 196769; ANCHORAGE, AK 99519-6769
ALC Reeve Aleutian Airways Inc; 4700 West International Airport Road; ANCHORAGE, AK 99502-1091
ALC Stratolift Inc; 701 West 41st Avenue; ANCHORAGE, AK 99503
CG USCG Station Adak/NOX; Box 47; FPO SEATTLE, WA 98777; USA
CG U.S. Coast Guard Base; POB 37; KODIAK, AK 99619

ALBANIA

ALB / ZA / 13600-13699 / LA / 82D3

PRS Agence Telegraphique Albanaise; Technical Department; Boulevard Marcel Cachin 23; TIRANA
PTT Direction Generale des Postes, Telegraphes et Telephones; Departement des Radiocommunications; 42 Rue Myslym Shyri; TIRANA

ALGERIA

ALG / 7R 7T-7Y / 60350-60699 / DA / 88L7

AIR Etablissement National pour l'Exploitation Meteorologique et Aeronautique; Service de l'Information Aeronautique; Le Chef du Departement S.I.A.; U.E.N.A.; Route de Siddi Moussa Baraki; BP 653; EL DJAZA'IR/Gare
ALC Air Algerie; 1 Place Maurice-Audin; EL DJAZA'IR
MAR (Skikda R =) Ministere des Postes et Telecommunications; Centre Radiomaritime; BOUFARIK
MET Ministere des Transports; Office National de la Meteorologie; Centre National Automatise de Traitement de l'Information Meteorologique; Directeur; Ferme Viasphalt, Route de Sidi Moussa; Dar el Beida; EL DJAZA'IR
MFA Ministere des Affaires Etrangeres; 6 Rue Claude Bernard; EL DJAZA'IR
PRS Algerie Presse Service; 7 Boulevard Che Guevara; EL DJAZA'IR
• Ministere de l'Interieur; Direction Generale des Transmissions Nationales; Direction des Etudes Techniques de la Normalisation et des Programmes; Le Sous-Directeur de la Reglementation et du Controle; EL DJAZA'IR

AMSTERDAM AND SAINT PAUL

AMS / see France / 61996 / - / 26N14

MAR (Martin de Vivies R via DTRE Martin de Vivies)
PTT Le Chef Radio et le Gerant Postal; MARTIN DE VIVIES

ANDORRA

AND / C3 / - / - / 72G10

ANGOLA

AGL / D2-D3 / 66100-66499 / FN / 91D9

AIR	Direccao Nacional de Aviacao Civil; Rua D. Miguel de Melo 92-6; CP 569; LUANDA
ALC	Angola Air Charter UP; CP 3010; LUANDA
ALC	TAAG Linhas Aereas de Angola; CP 3010; LUANDA
MAR	(Luanda R via EPTEL Luanda)
PRS	Agencia Angola Press; Departemento Tecnico; Le Directeur Technique; Rua Mouzinho de Albuquerque 13, 10 Andar; CP 3181; LUANDA
PTT	Empresa Publica de Telecomunicacoes; CP 625; LUANDA

ANGUILLA

AIA / see United Kingdom / 78846-78849 / TO / 116N5

ANTARCTIC

ATA / see respective states / 88963-88970 89000-89999 / NZCM / 123

MET	(SAAM Moldezhnaya via AARI Leningrad, USSR)

ANTIGUA AND BARBUDA

ATG / V2 / 78860-78864 / TA / 116o6

AIR	Directorate of Civil Aviation of Eastern Caribbean States; POB 1130; ST. JOHN'S
ALC	LIAT; POB 819; V.C. Bird International Airport; ST. JOHN'S
ALC	Seagreen Air Transport; POB 392; ST. JOHN'S

ARGENTINA

ARG / AY-AZ LO-LW L2-L9 / 87000-87999 / SA / 117G4

AIR	Fuerza Aerea Argentina; Comando de Regiones Aereas; Direccion de Transito Aereo; Calle Comodoro Pedro Zanni 250; 1104 BUENOS AIRES
ALC	Aerolineas Argentinas; Paseo Colon 185; 1063 BUENOS AIRES
ALC	Austral Lineas Aereas SA; Avenida Corrientes 485; 1043 BUENOS AIRES
ALC	Lineas Aereas del Centro de la Republica; Leandro N. Alem 884; 3rd Floor; 1001 BUENOS AIRES
ALC	Servicios Transportes Aereos Fueguinos SA; Carlos Pelegrini 1069; 1009 BUENOS AIRES
MAR	Boca Radio LSA; Subsecretaria de Marina Mercante; Jefe de la Planta Recepcion; c/o E.L.M.A.; Corrientes 389; 1043 BUENOS AIRES
MAR	(General Pacheco R =) Seccion Planta Receptora Don Bosco; Jefe Seccion; Lomas de Zamora 252; 1876 DON BOSCO
MET	Ministerio de Defensa; Fuerza Aerea Argentina; Comando de Regiones Aereas; Servicio Meteorologico Nacional; Central Comunicaciones "ACC"; 25 de Mayo 658; 1002 BUENOS AIRES
NAV	Centro Comunicaciones Navales; Jefatura de Operaciones; Malabia 3029; 1425 BUENOS AIRES
NAV	Armada Argentina; Base Naval; Jefe Estacion Principal; 8111 PUERTO BELGRANO
PRS	(AP Buenos Aires via ENCOTEL Buenos Aires)
PRS	(DyN Buenos Aires via ENCOTEL Buenos Aires)
PRS	(NA Buenos Aires via ENCOTEL Buenos Aires)
PRS	(REUTER Buenos Aires via ENCOTEL Buenos Aires)
PRS	(TELAM Buenos Aires via ENCOTEL Buenos Aires)
PTT	Empresa Nacional de Correos y Telegrafos; Direccion General de Telegrafos Internacional; Sarmiento 151, 5 piso, Oficina 524; 1000 BUENOS AIRES
TSF	Armada Argentina; Observatorio Naval; Servicio de Frecuencias Patrones de LOL; Jefe de Observatorio Naval; Avenida Costanera Sur 2099; BUENOS AIRES
TSF	Instituto Geografico Militar; Servicio Internacional de la Hora; Seccion Conservacion de la Hora; Jefe de Seccion; Calle 38 Gral. Nicolas M. Savio 865; Villa Maipu; 1650 SAN MARTIN

ARUBA

ABW / P4 / 78980-78984 / MACA / 116A1

ALC Air Aruba NV; Queen Beatrix International Airport; ARUBA

ASCENSION

ASC / see United Kingdom / 61902 / FH / 96B12

AUSTRALIA

AUS / AX VH-VN VZ / 94100-95499 95511-95999 / AB AD AM AP AS / 10

AF RAAF Base; 20 Denowen Street; DARWIN, NT 5789
AIR Department of Aviation; Northern Territory Region; Flight Service Officer; POB 36821; WINNELIE, NT 5789
AIR (Perth Air via) Department of Aviation; The Deputy Secretary (Air); GPOB 1839-Q; MELBOURNE, VIC 3001
AIR Department of Air Transport; Sydney Kingsford-Smith Airport; Flight Service Centre; Flight Information Supervisor; POB 211; MASCOT, NSW 2020
ALC Ansett Airlines of Australia; 501 Swanston Street; MELBOURNE, VIC 3000
ALC Ansett Western Australia; Perth Domestic Airport; CLOVERDALE, WA 6105
ALC Australia-Asia Airlines Ltd; Grosvenor Place; POB N767; SYDNEY, NSW 2000
ALC Australian Airlines Ltd; POB 2806AA; MELBOURNE, VIC 3001
ALC Compass Airlines Pty Ltd; 14 Merchant Place; Level 7; SYDNEY, NSW 2000
ALC East-West Airlines Ltd; Level 3; 431 Glebe Point Road; GLEBE, NSW 2037
ALC IPEC Aviation; Hangar 86; Bristol Street; ESSENDON AIRPORT, VIC 3041
ALC Qantas Airways Ltd; Qantas International Centre; International Square; POB 489; SYDNEY, NSW 2000
ALC Sherrard Aviation Pty Ltd; Terminal Building; ESSENDON AIRPORT, VIC 3041
CY Royal Flying Doctor Service; Manager; POB 2210; ALICE SPRINGS, NT 5750
CY Royal Flying Doctor Service; Base Manager; POB 42; CHARLEVILLE, QLD 4470
FF (USN Exmouth =) NAVCOMMSTA Harold E. Holt; HMAS HARMAN; Officer in Charge; CANBERRA, ACT 2600
MAR Sydney Radio VIS; POB 321; MAROUBRA, NSW 2035
MAR (Thursday Island R via OTC Sydney)
MET (Canberra Meteo =) Department of Administrative Services; Bureau of Meteorology; Head Office; 150 Lonsdale Street; GPOB 1289K; MELBOURNE, VIC 3001
MET Department of Administrative Services; Bureau of Meteorology; Northern Territory Regional Office; Regional Director; 79-81 Smith Street; GPOB 735; DARWIN, NT 5794
NAV NAVCOMMSTA Canberra; HMAS Harman; CPORS Operations; CANBERRA, ACT 2600
NAV (RAN Darwin via RAN Canberra)
PTT Overseas Telecommunications Commission; Managing Director; 32 - 36 Martin Place; GPOB 7000; SYDNEY, NSW 2001
TSF National Standards Commission; Executive Director; POB 282; NORTH RYDE, NSW 2113

AUSTRIA

AUT / OE / 11000-11399 / LO / 65

AIR Bundesamt für Zivilluftfahrt; Aeronautical Information Service; Schnirchgasse 11; A-1030 VIENNA
ALC Austrian Airlines; Postfach 50; A-1107 VIENNA
ALC Lauda Air Luftfahrt AG; Postfach 56; Flughafen; A-1300 VIENNA
MAR Erste Österreichische Donau-Dampfschiffahrts-Gesellschaft; Direktion; Hintere Zollamtsstr. 1; A-1030 VIENNA
MFA (MFA Vienna via PTT Vienna)
PTT Radio-Austria AG; Wiedner Hauptstr. 73; A-1043 VIENNA

AZORES

AZR / see Portugal / 08500-08515 / see Portugal / 96S4

AIR Aeroportos e Navegacao Aerea E.P.; Direccao Regional do Atlantico; Chief Aeronautical Radio; Aeropuerto de Santa Maria; P-9580 VILA DO PORTO

ALC	Servico Acoreano de Transportes Aereos EP; Avenida Infante D. Henrique 55; P-9502 PONTA DELGADA
FF	(PAF/USAF Lajes AFB =) USAF Communications Station CUW; Department of the Air Force; 1936 Communications Squadron; Operations NCO TCF; APO NEW YORK, NY 09406; USA
MAR	(Ponta Delgada R via CPRM Ponta Delgada)
PTT	Companhia Portuguesa Radio Marconi; O Garante em Ponta Delgada; Rua do Acoreano Oriental 39-A; P-9500 PONTA DELGADA

BAHAMAS — BAH / C6 / 78050-78149 / MY / 116F2

AIR	Director of Civil Aviation; POB 975; International Airport; NASSAU, N.P.
ALC	Bahamasair; POB N4881; NASSAU, N.P.
MAR	(Nassau R via BTC Nassau)
PTT	Bahamas Telecommunications Corporation; General Manager; POB N-3048; NASSAU, N.P.

BAHRAIN — BHR / A9 / 41150-41159 / OB / 33K10

AIR	Civil Aviation Directorate; Bahrain International Airport; POB 586; MANAMA
MAR	(Manama R via BATELCO Manama)
PRS	Gulf News Agency; English Section; POB 301; MANAMA
PTT	Bahrain Telecommunications Company; Maritime Operating Centre; Administrative Supervisor; POB 14; MANAMA

BANGLA DESH — BGD / S2-S3 / 41850-41999 / VG / 28G4

AIR	Civil Aviation Authority; Communications Division; Assistant Director; Kurmitola; DHAKA 6
ALC	Biman Bangla Desh Airlines; Biman Bhaban; Motijheel Commercial Area; DHAKA 1000
MAR	(Chittagong R via BTTB Dhaka)
MAR	(Khulna R via BTTB Dhaka)
PTT	Bangla Desh Telegraph and Telephone Board; Telejogajog Bhaban; 36/1 Mymensing Road; DHAKA 27

BARBADOS — BRB / 8P / 78954-78955 / TB / 116P6

AIR	Ministry of International Transport; Air Traffic Services Building; Technical Director; Grantley Adams International Airport; CHRIST CHURCH
MAR	(Bridgetown R via BEXTEL Bridgetown)
PTT	Barbados External Telecommunications Ltd; Operations Division; Manager; POB 32; BRIDGETOWN

BELGIUM — BEL / ON-OT / 06400-06499 / EB / 61

AIR	Regie des Voies Aeriennes; Service SV/ATS; Aeroport de Bruxelles - National; B-1930 ZAVENTEM
ALC	Air Belgium; Vilvoordelaan 192; B-1930 ZAVENTEM
ALC	Belgian International Air Carriers; Leuvensesteenweg 542; Planet II B8B; Unit A5; 1st Floor; B-1930 ZAVENTEM
ALC	Delta Air Transport; Antwerp Airport; B-2100 DEURNE
ALC	European Air Transport NV; Building 4-5; Brussels National Airport; B-1930 ZAVENTEM
ALC	Overseas National Airways SA; Avenue Louise 416; Boite 7; B-1050 BRUSSELS
ALC	Sabena World Airlines; 35 Rue Cardinal Mercier; B-1000 BRUSSELS
ALC	Sobelair; 131 Avenue Frans Courtens; B-1030 BRUSSELS

ALC Trans European Airways; Building 119; Airport; B-1910 MELSBROEK
FF (NATO Mons =) S.H.A.P.E.; Regional Signal Group; Radio NCO; Commander Systems Squadron; B-7010 MONS
MAR Kuststation Antwerpen Radio; Administratieve Dienst; Blaneefloerlaan 179; B-2050 ANTWERPEN
MAR Gewert van de Maritieme Diensten; Aartshertsoginnenstraat 27; B- OOSTENDE
NAV (BN Oostende =) Verbindingscentrum Zeemacht; Wenduinesteenweg 133; B- VLISSEGEM
PTT Regie des Telegraphes et des Telephones; Administration Centrale; Departement de la Transmission; 42 Rue des Palais; B-1210 BRUSSELS

BELIZE

BLZ / V3 / 78575-78599 / MZ / 115P9

AIR The Chief Civil Aviation Officer; Belize International Airport; POB 367; BELIZE CITY
ALC Western Caribbean Airlines Ltd; POB 244; BELIZE CITY

BENIN

BEN / TY / 65300-65349 / DB / 89L8

AIR Representation de l'ASECNA; BP 96; COTONOU
MAR (Cotonou R via PTT Cotonou)
PTT Office des Postes et Telecommunications; Directeur General; COTONOU

BERMUDA

BER / see United Kingdom / 78000-78019 / TX / 96A1

AIR Department of Civil Aviation; Ferry Reach; ST. GEORGE'S 1-15
MAR (Hamilton R via C+W Hamilton)
PTT Cable and Wireless PLC; Church Street West; POB 151; HAMILTON 5

BHUTAN

BHU / A5 / - / VQ / 28G2

AIR Ministry of Communications and Tourism; Department of Civil Aviation; POB 209; THIMPHU
ALC Druk Air Corp; POB 209; THIMPHU

BOLIVIA

BOL / CP / 85000-85399 / SL / 120E7

AIR AASANA; Administracion de Aeropuertos y Servicios Auxiliares a la Navegacion Aerea; Avenida Montes 716; Casilla 4382; LA PAZ
AIR AASANA; Administracion de Aeropuertos y Servicios Auxiliares a la Navegacion Aerea; Aeropuerto Internacional de Viru-Viru; Jefe Centro Regional Operaciones; Casilla 1449; SANTA CRUZ
ALC Lloyd Aereo Boliviano SAM; Casilla 132; COCHABAMBA
ALC Transporte Aereo Boliviano; Casilla 20847; LA PAZ

BOTSWANA

BOT / A2 8O / 68024-68328 / FB / 94G4

AIR Department of Civil Aviation; Chief Air Traffic Control Officer; POB 250; GABORONE
ALC Air Botswana Corp Ltd; POB 92; GABORONE

BOURKINA FASO

BFA / XT / 65500-65525 / DF / 89J5

AIR ASECNA; Representation en Haute-Volta; BP 63; OUAGADOUGOU
ALC Air Burkina; Avenue Binger; BP 1459; OUAGADOUGOU
ALC Naganagani; BP 4580; OUAGADOUGOU

BRAZIL

B / PP-PY ZV-ZZ / 82000-83999 / SB / 117H3

AIR	(Brasilia Air via TASA Rio de Janeiro)
AIR	(Manaus Air via TASA Rio de Janeiro)
AIR	Servico Regional de Protecao ao Voo de Recife; Chefe Interimo do SRPV Recife; Abreu de Miranda; Av. Mal. Mascarenhas de Morais 6211; 50000 RECIFE
AIR	Telecomunicacoes Aeronauticas SA; CP 161; Aeropuerto de Belmont; PORTO VELHO, RO
AIR	Telecomunicacoes Aeronauticas SA; Aeroporto Internacional do Galeao; Hangar No. 2; CP 3112; 20001 RIO DE JANEIRO
ALC	Cruzeiro do Sul SA; Avenida Almirante Silvio de Noronha 365; 20021 RIO DE JANEIRO
ALC	TNT Servicos Aereos do Vale Amazonica SA; Avenida Morvan Dias Figuiredo 1400; Parque Novo Mundo; 02178 SAO PAULO
ALC	Transbrasil SA; Rua General Pantaleao Telles 40; Parque Jabaquara; 04355 SAO PAULO
ALC	Viacao Aerea Rio Grandense SA; Avenida Almirante Silvio de Noronha 365; 20021 RIO DE JANEIRO
ALC	Viacao Aerea Sao Paulo SA; Edificio VASP; Aeroporto de Congonhas; 04695 SAO PAULO
MAR	Estacao Costeira Belem; Avenida Tavaros Bastos; 66000 BELEM
MAR	Estacao Costeira Juncao; Rua Otacilio Charas 199; 96200 VILA JUNCAO
MAR	EMBRATEL; Chefe de Distrito de Operacoes de Manaus; 69000 MANAUS
MAR	** Marcos Antonio M. de Sena; Rua Eladio Ramos 99; Boa Viagem; 50000 RECIFE
MAR	EMBRATEL; Centro de Operacoes Costeiras; Estrada da Matriz; 3286 Pedra de Guaratiba; 200.. RIO DE JANEIRO
MAR	Santos Radio PPS; Avenida Epitacio Pessoa 743; SANTOS, SP
MET	Ministerio da Agricultura; Instituto Nacional de Meteorologia; Nucleo do Intercambio Tecnologico; Director Geral; Praca 15 de Novembro, 2-5° and.; 20010 RIO DE JANEIRO
NAV	Estacao Radio da Marinha no Rio de Janeiro; 1. Distrito Naval; Chefe Departemento Op. Comunicacoes; Estrada do Jequia s/n; Ilha do Governador; RIO DE JANEIRO
NAV	Estacao Radio da Marinha em Salvador; Base Naval de Aratu; 40800 SALVADOR
TSF	Servico de Hora; Observatorio Naval (MEC); Rua General Bruce 586; Sao Cristavao; 20000 RIO DE JANEIRO

BRITISH INDIAN OCEAN TERRITORY

BIO / see United Kingdom / - / FJ / 27L11

BRUNEI

BRU / V8 / 96300-96399 / WBA WBS / 18L3

AIR	Director of Civil Aviation; Department of Civil Aviation; Brunei International Airport; BANDAR SERI BEGAWAN
ALC	Royal Brunei Airlines Ltd; POB 737; BANDAR SERI BEGAWAN

BULGARIA

BUL / LZ / 15500-15999 / LB / 82F2

AIR	Ministry of Transport; State Aeronautical Inspectorate; 9 Levsky Street; BG-1... SOFIA
ALC	Balkan Bulgarian Airlines; International Airport; BG-1... SOFIA C
PRS	Bulgarska Telegrafitscheka Agentzia; Boulevard Lenin 49; BG-1... SOFIA
PTT	Association Nationale des Postes et Telecommunications; BG-1000 SOFIA

BURUNDI

BDI / 9U / 64390-64399 / HB / 93A9

AIR	Ministere des Transports et de l'Aeronautique; Direction de la Regie des Services Aeronautiques; Le Chef du Service des Telecommunications Aeronautiques; BP 694; USUMBURA

BYELORUSSIA

BLR / EU-EW / see Union of Soviet Socialist Republics / see Union of Soviet Socialist Republics / 46F3

CAMBODIA CBG / XU / 48960-48999 / VD / 25G6

AIR Ministere des Travaux Publics et des Telecommunications; Direction de l'Aviation Civile; BP 86; PHNOM PENH
ALC Air Cambodia; BP; Pochentong Airport; PHNOM PENH

CAMEROON CME / TJ / 64850-64999 / FK / 84F5

AIR ASECNA; Representation au Cameroun; Chef Service d'Exploitation des Telecommunications; Le Representant de l'Agence; BP 4063; DOUALA
ALC Cameroon Airlines; BP 4092; DOUALA
MAR Station Cotiere Douala Radio TJK; Chef de la Station; DOUALA

CANADA CAN / CF-CK CY-CZ VA-VG VO VX-VY XJ-XO / 71000-71999 / CU-CZ / 97

AIR Transport Canada; Gander International Flight Service Station; Flight Services Area Supervisor; 89 Edinburgh Avenue; Box 400; GANDER, NFLD A1V 1W8
ALC AirBC Ltd; 4740 Agar Drive; RICHMOND, BC V7B 1A6
ALC Air Canada; Place Air Canada; MONTREAL, QUE H2Z 1X5
ALC Air Nova Inc; 1550 Bedford Highway; Suite 500; BEDFORD, NS B4A 1E6
ALC Air Ontario Inc; 1 Ontario Drive; LONDON, ONT N5V 3S4
ALC Air Transat Inc; 17380 Rue de la Paix; SAINT-JANVIER, QUE J0N 1N0
ALC Bradley Air Services Ltd; Carp Airport; CARP, ONT K0A 1L0
ALC Canada 3000 Airlines Ltd; 27 Fasken Drive; TORONTO, ONT M9W 1K6
ALC Canadian; Scotia Centre 2800; 700 2nd Street S.W.; CALGARY, ALTA T2P 2W2
ALC Intair Inc; CP 490; Aeroport International; MONTREAL, QUE H4Y 1B5
ALC Kelowna Flightcraft Air Charter Ltd; RR 2; Airport; KELOWNA, BC V1Y 7R1
ALC Nationair Canada; Edifice Nationair/Technair; Route Cargo A-1; International Airport; MIRABEL, QUE J7N 1A5
ALC Odyssey International; 6725 Airport Road; Suite 603; MISSISSAUGA, ONT L4V 1V2
ALC Wescan Transportation Services Ltd; 3300-10180-101 Street; EDMONTON, ALTA T5J 3S4
ALC Worldways Canada Ltd; 6299 Airport Road; MISSISSAUGA, ONT L4V 1N3
CG Coast Guard Radio Station; POB 189; FROBISHER BAY, NWT X0A 0H0
CG Station VOK; POB 610; GOOSE BAY, LAB A0P 1S0
CG Halifax Marine Radio VCS; Shift Supervisor; Ketch Harbour; HALIFAX COUNTY, NS
CG Transport Canada; Quebec Coast Guard; 101 Boulevard Champlain; QUEBEC, QUE G1K 4H9
CG Transport Canada; Coast Guard Radio Station; Manager of Operations; BP 100; RIVIERE-AU-RENARD, QUE G0E 2A0
CG St. Anthony Coast Guard Radio; POB 157; ST. ANTHONY, NFLD A0K 4S0
CG Stephenville Coast Guard Radio; 58 Alabama Drive; STEPHENVILLE, NFLD A2N 2X5
CG CCG Radio Station St. John's; Area Operations Manager; POB 1300; ST. JOHN'S, NFLD A1C 6H8
CG Sydney Coast Guard Radio; Area Operations Manager; Telecommunications and Electronics; POB 863; SYDNEY, NS B1P 1C6
CG Vancouver Coast Guard Marine Airadio Station VAI; 109 4611 Cowley Crescent; RICHMOND, BC V7B 1B9
MET Department of the Environment; Atmospheric Environment Service; Field Services Directorate; 4905 Dufferin Street; DOWNSVIEW, ONT M3H 5T4
NAV Canadian Forces Meteorological Operational Centre; FMO Halifax; CFB; HALIFAX, NS B3K 2X0
TSF Radiostation CHU; National Research Council; Observatory Crescent; OTTAWA, ONT K1A 0S1

CANARY ISLANDS

CNR / see Spain / 60000-60099 / GC / 96U11

ALC	Lineas Aereas Canarias SA; Avenida de Ansite 3; Edificio Sol y Vista; E-35011 LAS PALMAS
MAR	Centro Regional de Comunicaciones Radiomaritimas; San Cristobal; Grenadera Canaria 19; E-35001 LAS PALMAS

CAPE VERDE

CPV / D4 / 08581-08599 / GV / 89o10

AIR	Servico de Informacao Aeronautica; Central Radio; Aeroporto Internacional; AMILCAR CABRAL, Sal
ALC	Transportes Aereos de Cabo Verde; CP 1; PRAIA, Santiago
MAR	Ministerio dos Transportes e Comunicacoes; Direccao dos Servicos dos Correios e Telecomunicacoes; Estacao Costeira D4A; MINDELO, Sao Vicente

CAYMAN ISLANDS

CYM / see United Kingdom / 78383-78384 / MW / 116D5

AIR	Director of Civil Aviation; POB 277; GEORGETOWN, Grand Cayman
ALC	Cayman Airways Ltd; POB 1101; GEORGETOWN, Grand Cayman

CENTRAL AFRICAN REPUBLIC

CAF / TL / 64600-64699 / FE / 89H8

AIR	ASECNA; Le Representant aupres de la Republique Centrafricaine; BP 828; BANGUI

CHAD

TCD / TT / 64700-64799 / FT / 89H5

AIR	ASECNA; Representation du Tchad; Service des Installations Techniques; Le Chef du Service Maintenance; BP 70; N'DJAMENA
ALC	Air Tchad; BP 168; N'DJAMENA

CHILE

CHL / CA-CE XQ-XR 3G / 85400-85999 / SC / 117G4

AIR	Direccion de Aeronautica; Pasaje Antonio Varas 1190; 3. Piso; Apartado 3; Correo Providencia; SANTIAGO
ALC	Fast Air Carrier SA; Terminal de Cargo; Aeropuerto Comodoro Arturo Merino Benitez; SANTIAGO
ALC	Linea Aerea del Cobre SA; Victoria Subercaseaux 381; SANTIAGO
ALC	Linea Aerea Nacional de Chile SA; Estado 10; Piso 21; Casilla 147-D; SANTIAGO
MET	Ministerio de Defensa Nacional; Fuerza Aerea de Chile; Direccion General de Aeronautica; Direccion Meteorologica de Chile; Comandante de Grupo (C); Casilla 717; SANTIAGO
NAV	Armada de Chile; Gobernacion Maritima de Aysen; Casilla 278; PUERTO AYSEN
NAV	Armada de Chile; Comandancia en Jefe; Jefe; Servicio Telecomunicaciones; SANTIAGO

CHINA

CHN / B XS 3H-3U / 50000-59999 / ZB-ZH ZL-ZY / 17E5

AIR	Civil Aviation Administration of China; Telecommunications Department; 155 Doug-si West Street; POB 644; BEIJING
ALC	China United Airlines; Dong Chang An Jie 31; BEIJING
ALC	Civil Aviation Administration of China; POB 644; BEIJING
ALC	Shanghai Airlines; 191 Chang Le Road; SHANGHAI
MAR	Dalian Radio; 1 Gangwan Street; Zhongshan District; DALIAN
MAR	Guangzhou Coast Radio Station; 13th Floor; 40 Binjiang West Road; POB 1181; GUANGZHOU

MAR Shanghai Radio XSG; Shanghai Marine Telecommunications and Navigation Company; 20 Guang Dong Road; SHANGHAI
MAR Tianjin Radio; Jiefang Door; Xianggang Tanggu; TIANJIN
MET State Meteorological Administration; Department of Operations and Development; Assistant Director; 46 Baishiqiaolu; BEIJING
PTT Ministry of Posts and Telecommunications; BEIJING
PTT Shanghai Telegraph Office; Traffic Section; 34 Nanking Road Eastern; SHANGHAI
TSF Zi-Ka-Wei Observatory; Academia Sinica; SHANGHAI
TSF Shaanxi Astronomical Observatory; Academia Sinica; Chief of Science/Technique Section; POB 18; LINTONG near Xi'an

CHRISTMAS ISLAND

CHR / see Australia / 96995 / APXM / 26V3

COCOS (KEELING) ISLANDS

ICO / see Australia / 96996 / APOS / 26V1

AIR Department of Aviation; Officer-in-Charge; POB 1; PANJANG 6799

COLOMBIA

CLM / HJ-HK 5J-5K / 80000-80399 / SK / 119C5

AIR Departemento Administrativo de Aeronautica Civil; Centro Nacional de Aeronavegacion; Aeropuerto Internacional La Droga; Apartado Aereo 12307; BOGOTA
AIR Departemento Administrativo de Aeronautica Civil; Aeropuerto Camilo Daza; Apartado Aereo 114; CUCUTA
AIR Departemento de Aeronautica Civil; Aeropuerto Baracoa; Apartado Aereo 112; MAGANGUE, Bolivar
ALC Aerolineas Centrales de Colombia SA; Calle 51 No. 51-20; Edificio del Cafe; Apartado Aereo 6503; MEDELLIN
ALC Aerosucre Colombia SA; Terminal de Carga; Aeropuerto Ernesto Cortissoz; Apartado 23; BARRANQUILLA
ALC Aerovias Colombianes Ltda; Calle 19 No. 8-81; Oficina 303; Apartado 14430; BOGOTA
ALC Aerovias Nacionales de Colombia SA; Avenida El Dorado 93-30; Piso 4; Bloque 1; BOGOTA
ALC Intercontinental Colombia; Avenida Eldorado; Entrada 2; Interior 6: BOGOTA
ALC Lineas Aereas del Caribe SA; Calle 39 No. 41-31; Edificio LAC; Apartado 3192; BARRANQUILLA
ALC Lineas Aereas Suramericanas Ltda; Aeropuerto Eldorado; Entrada 2; Interior 7; Apartado 98971; BOGOTA
ALC Sociedad Aeronautica de Medellin Consolidada SA; Oficina del Gerente; Calle 52; 52-11; Edificio SAM; Apartado 1085; MEDELLIN
ALC Transportes Aereos Mercantiles Panamericanos SA; Carrera 76 No. 34A-61; Apartado 494; MEDELLIN
MAR (Buenaventura R via ENTEL Bogota)
PTT Empresa Nacional de Telecomunicaciones; Carrera 23 No. 13-49; BOGOTA

COMOROS

COM / D6 / 67000-67004 / FMCH-FMCV / 95A1

AIR Service de l'Aviation Civile; BP 72; MORONI
PTT (PTT Moroni via DTRE Paris, France)

CONGO

COG / TN / 64400-64499 / FC / 91D4

AIR ASECNA; Representation au Congo; Service Meteorologique; Centre Regional des Telecommunications Meteorologiques; BP 218; BRAZZAVILLE
ALC Lignes Nationales Aeriennes Congolaises; BP 2203; BRAZZAVILLE
MAR (Pointe Noire R via ONPT Brazzaville)

MET (Brazzaville Meteo via ASECNA Brazzaville)
PTT Office National des Postes et Telecommunications; Avenue Patrice Lumumba; BRAZZAVILLE

COOK ISLANDS

CKH / see New Zealand / 91800-91811 91826-91847 / NC / 122L10

ALC Cook Islands International; 431 Glebe Point Road; 4th Floor; GLEBE, NSW 2037; Australia
MAR (Avarua R via C+W Rarotonga)
PTT Cable and Wireless PLC; POB 47; RAROTONGA

COSTA RICA

CTR / TE TI / 78750-78774 / MR / 115M4

AIR Ministerio de Obras Publicas y de Transportes; Direccion General de Aviacion Civil; Apartado 5026; SAN JOSE
ALC Lineas Aereas de Costa Rica SA; Apartado 1531; SAN JOSE
MAR (Limon R via RACSA San Jose)
PTT Radiografica Costarricense; Jefe Departemento Tecnico; Apartado 54; 1000 SAN JOSE

CROZET ARCHIPELAGO

CRO / see France / 61997 / - / 26N16

CUBA

CUB / CL-CM CO T4 / 78150-78379 / MU / 116D4

AIR Ministerio del Transporte Aerea Aerònautica; Calle 23 no. 64 vedado; Plaza de la Revolucion; Apartado 6215; HABANA
ALC Aero Caribbean SA; Calle 23 No. 113 Vedado; HABANA
ALC Cubana; Calle 23 No. 64; La Rampa; Vedado; HABANA 4
MAR (Habana R via PTT Habana)
PRS Prensa Latina; Departemento Tecnico; Calle 23 no. 201 vedado; HABANA
PTT Ministerio de Comunicaciones; Direccion General de Telecomunicaciones; Director Operaciones y Mantenimiento; Placa de la Revolucion "Jose Marti"; HABANA 6

CYPRUS

CYP / C4 H2 P3 5B / 17600-17619 / LC / 83K13

AIR Ministry of Communications and Works; Department of Civil Aviation; 25 St. George's Hill; NICOSIA
ALC Cyprus Airways Ltd; POB 1903; NICOSIA
FF RAF Communications Station MKD; Chief Signals Officer; BFPO 52; AKROTIRI
MAR (Nicosia R via CTA Nicosia)
PTT Cyprus Telecommunications Authority; Head Office; Chief Engineer; Telecommunications Street; POB 4929; NICOSIA 142

CZECHOSLOVAKIA

TCH / OK-OM / 11400-11999 / LK / 62J6

AIR Air Traffic Control Administration; Rizeni letoveho provozu; TEI department; Director; Letiste Praha-Ruzyne; CS-16008 PRAGUE
ALC Ceskoslovenske Aerolinie; Ruzyne Airport; CS-16008 PRAGUE
MAR Ceskoslovenska Plavba Dunajska; C.S.P.D.; Czechoslovakia Danube Navigation; Zaved riecnej a namornej dopravy; Director of Section River and Sea Traffic; Ulica Cernevej armady 39; CS-89024 BRATISLAVA
MET Hydrometeorologicky Ustav; Czech Hydrometeorological Institute; Director; Holeckova 8; CS-15129 PRAGUE
MFA (MFA Prague via PTT Prague)
PTT Federal Ministry of Transport, Posts and Telecommunications; Chief Engineer of Radiocommunications Division; Olsanska 5; CS-13074 PRAGUE

TSF Astronomical Institute; Time Division; Budecska 6; CS-12... PRAGUE

DENMARK DNK / OU-OZ XP 5P-5Q / 06000-06199 / EK / 53

AIR Civil Aviation Administration; Department of Air Navigational Facilities and Services; Kigkurren 6-8, M; DK-2300 COPENHAGEN
ALC Conair; Hangar 276; Copenhagen Airport; DK-2791 DRAGOER
ALC Maersk Air IS; Copenhagen Airport South; DK-2791 DRAGOER
ALC Sterling Airways AS; Copenhagen Airport; Hangar 144; DK-2791 DRAGOER
MAR Blavand Radio OXB; Blavand Radiotelegrafkontor; DK-6857 BLAVAND
MAR Lyngby Radio OXZ; Lyngby Radio-Drift; Bagsvaerd Mollevej 7; DK-2800 LYNGBY
MAR Statens Teletjeneste; Roenne Radio; Lille-Madse-Gade 18; DK-3700 ROENNE
MAR Skagen Radio OXP; Skagen Radiotelegrafkontor; Jens-Winthers-Vej 37; DK-9900 SKAGEN
MAR Torshavn Radio OXJ; Det Store Nordiske Telegraf-Selskab A/S; Tinghusvegur 76; Postboks 1288; DK-3800 TORSHAVN
MET Danmarks Meteorologiske Institut; Vejrtjenesten; Chief of Communication; Lyngbyvej 100; DK-2100 COPENHAGEN

DIEGO GARCIA DGA / see United States of America / 61967 / FJ / 27L11

NAV US Naval Oceanography Command Detachment Diego Garcia; Box 10; FPO SAN FRANCISCO, CA 96685-2905; USA

DJIBOUTI DJI / J2 / 63100-63149 / HF / 87J5

AIR Direction de l'Aviation Civile et de la Meteorologie; Bureau de Piste; Aeroport de Jibuti-Ambouli; BP 204; JIBUTI
ALC Air Djibouti; BP 505; JIBUTI
FF (FF Jibuti via FN Paris, France)
MAR (Jibuti R via PTT Jibuti)
PTT Centre des Telecommunications Internationales; Office des Postes et Telecommunications; Reseau General Radioelectrique; Le Chef de Centre; Boulevard de la Republique; BP 2031; JIBUTI

DOMINICA DMA / J7 / 78905-78914 / TD / 116o7

AIR Ministry of Communications and Works; Department of Civil Aviation; ROSEAU

DOMINICAN REPUBLIC DOM / HI / 78450-78499 / MD / 116J5

AIR Direccion General de Aeronautica Civil; Edificio de "Telecomunicaciones"; Isabel la Catolica 73; SANTO DOMINGO
ALC Aerochago Airlines SA; Aeropuerto Las Americas; SANTO DOMINGO
ALC Aerolineas Mundo SA; Aeropuerto Las Americas; SANTO DOMINGO
ALC Agro Air International Dominicana SA; POB 520941; MIAMI, FL 33152; USA
ALC Antillana de Navigacion Aerea SA; Gran Vias; Gran Torre; Oficina 8; E-28013 MADRID; Spain
ALC Dominicana de Aviacion; Apartado 1415; SANTO DOMINGO
ALC Transporte Aereo Dominicano; Aeropuerto Las Americas; SANTO DOMINGO

EASTER ISLAND PAQ / see Chile / 85469 / SCIP SCIZ / 122V16

ECUADOR

EQA / HC-HD / 84000-84299 / SE / 119B8

AIR	Direccion General de Aviacion Civil; Buenos Aires 149 y 10 de Agosto; Casilla 2077; QUITO
ALC	Andes Airlines; Aeropuerto Simon Bolivar; Casilla 3317; GUAYAQUIL
ALC	Ecuatoriana; Torres de la Almagro; Avenida Colon y Reina Victoria; QUITO
ALC	Servicios Aereos Nacionales SA; Casilla 7138; GUAYAQUIL
ALC	Sociedad Anonima Ecuatoriana de Transportes Aereos Ltda.; Casilla 2943; QUITO
ALC	Transportes Aereos Militares Ecuatorianos CA; Casilla 8736; Sucursal Almagro; QUITO
MAR	Direccion de la Marina Mercante y del Litoral; Malecon Simon Bolivar y Clemente Ballen; GUAYAQUIL
TSF	Instituto Oceanografica de la Armada; Jefe del Departemento Ayudas a la Navegacion; Casilla 5940; GUAYAQUIL

EGYPT

EGY / SSA-SSM SU 6A-6B / 62300-62599 / HE / 85J6

AIR	Egyptian Civil Aviation Authority; COM/OPS Director General; 31, 26th July Street; CAIRO
ALC	Air Sinai; 12 Kasr El Nil Street; CAIRO
ALC	Egypt Air; Cairo International Airport; HELIOPOLIS
ALC	Transmed Airlines; POB 185; GEZIRA 11568
ALC	ZAS Airline of Egypt; c/o Novotel; POB 8; Airport PO; CAIRO
MAR	Alexandria Radio; 9th Floor; Manshia Square; ALEXANDRIA
MAR	Port Said Radio; 15 Sultan Hussein Street; PORT SAID
MET	Ministry of Civil Aviation; Meteorological Authority; Telecom Section; Engineer in Charge; POB 11784; CAIRO
PRS	Middle East News Agency; Head of Engineering Section; 4 Sherifein Street; CAIRO

EL SALVADOR

SLV / HU YS / 78650-78674 / MS / 115o11

AIR	Direccion General de Aeronautica Civil; Aeropuerto Internacional; ILOPANGO
ALC	Transportes Aereos Centro Americanos International Airlines SA; Edificio Caribe 2 Piso; SAN SALVADOR

EQUATORIAL GUINEA

GNE / 3C / 64800-64849 / FG / 91A2

AIR	Ministerio de Comunicaciones y Transportes; Direccion General de Transportes; Apartado 416; MALABO
ALC	Ecuato Guineana de Aviacion; 51 Calle del Presidente Naser; Apartado 665; MALABO

ETHIOPIA

ETH / ET 9E-9F / 63000-63599 / HA / 87F6

AIR	Civil Aviation Authority; Engineering Department; Head Nav-aid & Communications; POB 978; ADDIS ABABA
ALC	Ethiopian Airlines Corp; POB 1755; ADDIS ABABA
MAR	(Assab R via ETA Addis Ababa)
PTT	Ethiopian Telecommunications Authority; Head Office; Radio Division; POB 1047; ADDIS ABABA

FALKLAND ISLANDS (MALVINAS) AND DEPENDENCIES

FLK / see United Kingdom / 88880-88903 / SF / 121E9

MAR	Stanley Radio VPC; Station Supervisor; STANLEY

FIJI FJI / 3DN-3DZ / 91650-91699 / NFF-NFS / 10Q5

AIR	Nadi Airadio; Operations and Safety Division; Communication Services; Station's Communications Officer; POB 183; Airport; NADI
ALC	Air Pacific Ltd; Private Mail Bag; Raiwaqa; SUVA
MAR	(Suva R via FITEL Suva)
PTT	Fiji International Telecommunications Ltd; POB 59; SUVA

FINLAND FNL / OF-OJ / 02800-02999 / EF / 51

AIR	National Board of Aviation; POB 50; SF-01531 VANTAA
ALC	Finnair, Oy; Mannerheimintie 102; SF-00250 HELSINKI
ALC	Karair, Oy; Helsinki-Vantaan lentoasema; SF-01530 VANTAA
MAR	(Helsinki R via PTT Helsinki)
MAR	Kotka Radio; Station Manager; Pl 2; SF-48221 KOTKA
MAR	Vaasa Radio; SF-65380 VAASA
PTT	General Directorate of Posts and Telecommunications; Telecommunications Department; International Section; POB 53; SF-00211 HELSINKI

FRANCE F / F HW-HY TH TK TM TO-TQ TV-TX / 07000-07999 / LF / 67

AF	Armee de l'Air; F.A.Tac. - 1ere R.A.; Commandement Regional des Transmissions de la Force Aerienne Tactique et de la 1ere Region Aerienne; Metz Air; F-57039 METZ Cedex
AF	French Air Force Communications Station FDY; Escadron Electronique 1/800; F-45000 ORLEANS-BRICY-AIR
AF	(FAF Paris =) Radio Club de la BA 117 F6TNB; Bat. 22 Piece 561; 24 Boulevard Victor; F-75015 PARIS
AIR	Ministere des Transports; Direction Generale de l'Aviation Civile; Direction de la Navigation Aerienne; L'Inspecteur Technique; 93 Boulevard du Montparnasse; F-75006 PARIS Cedex
ALC	Aeromaritime; 50 Rue Arago; F-92806 PUTEAUX
ALC	Airbus Inter Transport; 1 Rond Point Maurice Bellonte; F-31707 BLAGNAC Cedex
ALC	Air Charter; 4 Rue de la Couture; Silic 318; F-94588 RUNGIS Cedex
ALC	Air France; 1 Square Max Hymans; F-75741 PARIS Cedex 15
ALC	Air Inter; 1 Avenue Marechal Devaux; F-91550 PARAY Vieille Poste
ALC	Air Liberte; 1 Rue du Courson; Senia 128 Thiais; F-94517 RUNGIS Cedex
ALC	Air Littoral; Aeroport de Montpellier-Frejorgues; F-34130 MAUGUIO
ALC	Air Outre Mer; 18/20 Rue Pasteur; F-94278 LE KREMLIN-BICETRE Cedex
ALC	Air Service Nantes; 9 Rue d'Algers; F-44000 NANTES
ALC	Corse Air International; 20 Rue des Capucines; F-75002 PARIS
ALC	Euralair; Aeroport du Bourget; F-93350 LE BOURGET
ALC	Euroberlin France; Kantstr. 165; D-100 12 BERLIN; Germany
ALC	Europe Aero Service; Aerodrome de Perpignan-Rivesaltes; F-66028 PERPIGNAN Cedex
ALC	Inter Ciel Service; Orly Fret 816; F-94549 ORLY AEROGARE
ALC	Jet Alsace; Aeroport Bale-Mulhouse; F-68300 SAINT LOUIS
ALC	Jet Europe; Aeroport de Valence-Chabeuil; Cidex 741; F-26120 CHABEUIL
ALC	Jet Fret SA; BP 110; Aeroport Marseille-Provence; F-13729 MARIGNANE
ALC	L C Aviation; La Surville Nord; F-13510 EGUILLES
ALC	Minerve SA; 4 Rue Cambon; F-75001 PARIS
ALC	Trans European Airways France SA; 4 Allee Maryse Bastie; Orlytech; F-91550 PARAY Vieille Poste
ALC	Transport Aerien Transregional; BP 237; F-37002 TOURS
ALC	UTA; 3 Boulevard Malesherbes; F-75008 PARIS
IP	Le Chef du Centre Radio; O.I.P.C. INTERPOL; 26 Rue Armengaud; F-92210 ST. CLOUD
MAR	Centre Radiomaritime de Bordeaux-Arcachon; Le Chef de Centre; F-33311 ARCACHON
MAR	Boulogne-sur-Mer Radio; Le Portel (Pas-de-Calais); F-62200 BOULOGNE-SUR-MER
MAR	Centre Radiomaritime Brest-Le Conquet; Officer-in-Charge; F-29217 LE CONQUET
MAR	Centre Radiomaritime de Marseille; Mont Rose par la Madrague de Montredon; F-12008 MARSEILLE

MAR	Centre Radiomaritime de Saint-Lys; Le Chef de Centre; F-31470 SAINT-LYS
MAR	DTRE Services Radioelectriques; Centre Radiomaritime; L'Inspecteur Central; F-44480 SAINT-NAZAIRE-DONGES
MIL	Ministere de la Defense; Etat-Major des Armees; Chef; 14 Rue Saint-Dominique; F-75997 PARIS Armees
NAV	Marine Nationale Francaise; Poste Emetteur; Arsenal Maritime; F-29240 BREST-Naval
NAV	(FN La Regine via FN Toulon)
NAV	(FN Le Blanc via FN Paris)
NAV	Ministere de la Defense; Marine Nationale Francaise; Division T.E.R.; Secretariat EMM/OPS/TRANS; Bureau "Transmissions"; Etat-Major de la Marine; 2 Rue Royale; F-75200 PARIS-Naval
NAV	Marine Nationale; IIIe. Region Maritime; Service Transmissions et Veille Littorale; Chef du Service TVL; F-83800 TOULON-Naval
PRS	Agence France Presse; A.F.P. Technique; Le Chef du Service Peri-Informatique et Radio; 13 Place de la Bourse; BP 20; F-75061 PARIS Cedex 2
PTT	Direction des Telecommunications des Reseaux Exterieurs; Immeuble DTRE Bercy; M. l'Ingenieur en Chef; 246 Rue de Bercy; F-75584 PARIS Cedex 12
TSF	Centre National d'Etudes des Telecommunications; Departement EST/DEF; 38-40 Rue du General Leclerc; F-92131 ISSY-LES-MOULINEAUX
TSF	Bureau International de l'Heure; Laboratoire Primaire du Temps et des Frequences; M. le Chef du Service de l'Heure; 61 Avenue de l'Observatoire; F-75014 PARIS

GABON

GAB / TR / 64500-64599 / FO / 91B4

AIR	Representation de l'ASECNA; Chef Maintenance; BP 2252; LIBREVILLE
ALC	Air Gabon; BP 2206; LIBREVILLE
MAR	(Libreville R via TIG Libreville)
PTT	Telecommunications Internationales Gabonaises; BP 2261; LIBREVILLE

GAMBIA

GMB / C5 / 61700-61749 / GB / 89B5

AIR	Department of Civil Aviation; Directorate; Yundum International Airport; POB 285; BANJUL
MAR	(Banjul R via GAMTEL Banjul)
PTT	Gambia Telecommunications Co Ltd; POB 387; BANJUL

GERMANY

D / DA-DR Y2-Y9 / 09000-10999 / ED ET / 62D6

AIR	Bundesamt für Zivilluftfahrt; Opernplatz 14; Postfach 10 04 44; D-600 01 FRANKFURT
AIR	Ministerium für Verkehrswesen; Hauptverwaltung der Zivilen Luftfahrt; Zivile Flugsicherung; Zentral-Flughafen; D-911 89 BERLIN-SCHÖNEFELD
ALC	Aero Lloyd; Lessingstr. 7-9; D-637 00 OBERURSEL
ALC	Condor Flugdienst GmbH; Hans-Böckler-Str. 7; D-607 81 NEU-ISENBURG
ALC	Deutsche Lufthansa AG; Abteilung Fernmeldedienst; Bereich West; D-600 75 FRANKFURT Flughafen
ALC	German Cargo Services GmbH; Postfach 12 44; D-609 20 KELSTERBACH
ALC	Germania Fluggesellschaft mbH; Main Terminal; D-500 90 KÖLN Flughafen
ALC	Hapag-Lloyd Flug GmbH; Prüforganisation; Postfach 42 02 40; D-300 42 HANNOVER Flughafen
ALC	Interflug; Zentral-Flughafen; D-911 89 BERLIN-SCHÖNEFELD
ALC	LTU International Airways; Halle 8; D-400 30 DÜSSELDORF Flughafen
ALC	LTU Süd International Airways; Postfach 87 02 08; D-800 87 MÜNCHEN
ALC	NFD Luftverkehrs AG; Flughafenstr. 100; D-850 01 NÜRNBERG
CY	Klingenfuss Publications; Hagenloher Str. 14; D-740 00 TÜBINGEN
FF	(USA MARS Heidelberg =) US Army Communications Station AEM1USA; Department of the Army; 267th Signal Company; 73rd Signal Bataillon; Chief of Transmitter Branch; APO NEW YORK, NY 09189; USA

MAR	Funkamt Rügen; Küstenfunkstelle; D-923 44 GLOWE
MAR	Küstenfunkstelle Kiel Radio; Funkstellenweg 30; D-230 00 KIEL-SCHILKSEE
MAR	Küstenfunkstelle Norddeich Radio; Postfach 11 90; D-298 01 NORDEN
MET	(Grengel Meteo =) Amt für Wehrgeophysik; Beratungszentrale T3; Postfach 90 25 00/07; D-500 90 KÖLN
MET	(Hamburg Meteo =) Deutscher Wetterdienst; Heinrich-Hertz-Strasse; D-208 50 QUICKBORN
MET	Deutscher Wetterdienst; Zentralamt; Fernmeldeabteilung; Frankfurter Strasse 135; Postfach 10 04 65; D-605 00 OFFENBACH
MET	Meteorologischer Dienst; Stellvertreter des Direktors; Albert-Einstein-Strasse 42-44-46; D-915 00 POTSDAM
NAV	Marinefernmeldegruppe 21; Radiostation DHJ 59; Admiral-Zimmermann-Kaserne; D-294 00 WILHELMSHAVEN
PRS	Deutsche Presse-Agentur; Zentrale; Technische Leitung; Mittelweg 38; D-200 13 HAMBURG
PRS	Presse- und Informationsamt der Bundesregierung; Welckerstr. 11; D-530 01 BONN
PTT	Ministerium für Post- und Fernmeldewesen; Überseedienst der Deutschen Post; Agastrasse; D-911 99 BERLIN-ADLERSHOF
TSF	Physikalisch-Technische Bundesanstalt; Laboratorium 1.21; Station DCF77; Bundesallee 100; D-330 00 BRAUNSCHWEIG
•	Deutsche Welle; Hauptabteilung Hochfrequenz; Postfach 10 04 44; D-500 01 KÖLN

GHANA

GHA / 9G / 65400-65499 / DG / 89J8

AIR	Civil Aviation Authority; Director; POB 87; Kotoka International Airport; ACCRA
ALC	Ghana Airways Corp; Ghana House; POB 1636; ACCRA
ALC	Phoenix Aviation Ltd; Mill House; MERIDEN CV7 7HE; United Kingdom
ALC	Rainbow Cargo Airlines; Unit 8; McKay Trading Estate; Blackthorne Road; COLNBROOK SL3 0AH; United Kingdom
MAR	Coastal Station 9GA - Takoradi Radio; The Radio Officer; POB 8; TAKORADI

GIBRALTAR

GIB / see United Kingdom / 08495-08499 / LX / 76P10

ALC	GB Airways; Cloister Building; Market Lane; GIBRALTAR
NAV	Joint Communications Centre; Fleet Chief Supervisor; HM Naval Base Gibraltar; BFPO 52; LONDON; United Kingdom

GREECE

GRC / J4 SV-SZ / 16600-16799 / LG / 82E6

AIR	Ministry of Transport and Communications; Civil Aviation Authority; POB 73751; GR-16604 HELLINIKO
ALC	Olympic Airways; 96 Syngrou Avenue; GR-11741 ATHENS
EMB	(USE Athens via MFA Washington, USA)
FF	US NAVCOMMSTA Nea Makri GR; Commanding Officer; FPO NEW YORK, NY 09525; USA
MAR	(Athens R via HTO Athens)
MAR	(Iraklion R via HTO Athens)
MAR	(Kerkyra R via HTO Athens)
MAR	Rhodos Radio SVN; O.T.E. Paraktion Kentron; Radiopikonion Rodoy; GR- RHODOS
PTT	Hellenic Telecommunications Organization SA; Installation Department; Radio Division; 15 Stadiou Street; GR- ATHENS 124

GREENLAND

GRL / see Denmark / 04100-04399 / BG / 48

MAR	(Nuuk R via GTO Nuuk)
NAV	Naval Radio Station OVC; Officer-in-Charge; DK-3930 GRONNEDAL

PTT Gronlands Tekniske Organisation; Traffic Department; Chief Supervisor; Telestationen; Postbox 1002; DK-3900 NUUK

GRENADA

GRD / J3 / 78956-78959 / TG / 116P5

AIR Ministry of Works, Communication, Public Utilities, Civil Aviation and Energy; Department of Civil Aviation; POB 293; ST. GEORGE'S

GUADELOUPE AND DEPENDENCIES

GDL / see France / 78890-78904 / TFFA-TFFC TFFG - TFFS / 116N4

ALC Air Guadeloupe; Aeroport du Raizet; F-97110 ABYMES

GUAM

GUM / see Marianas (Northern) / 91212-91217 / PGA-PGF PGT-PGU / 19L1

CG USCG Radio Station; Commanding Officer; Box 149 NCWP; FPO SAN FRANCISCO, CA 96630-1843; USA

NAV US Naval Oceanography Command Center; Joint Typhoon Warning Center; Commanding Officer; COMNAVMARIANAS Box 12; FPO SAN FRANCISCO, CA 96630-2926; USA

GUATEMALA

GTM / TD TG / 78600-78649 / MG / 115o10

AIR Direccion General de Aeronautica Civil; Aeropuerto Internacional "La Aurora"; Zona 13; CIUDAD DE GUATEMALA

ALC Aeroquetzal; Avenida Hincapie 23-30; Zona 13; Aeropuerto La Aurora; CIUDAD DE GUATEMALA

ALC Aviateca; Avenida Hincapie 12-22; Aeropuerto La Aurora; Zona 13; CIUDAD DE GUATEMALA

GUIANA (FRENCH)

GUF / see France / 81400-81599 / SO / 117C2

AIR Ministere des Transports; Direction de l'Aeronautique Civile; Chef de la Maintenance Radioelectrique; Aerodrome de Cayenne-Rochambeau; F-97300 MATOURY

ALC Air Guyane; Aeroport de Cayenne Rochambeau; F-97307 MATOURY

MIL (FA Cayenne via) **Marcel Richer FY7BW; Lotissement Jasmin; Route de Cabassou Villa 1; F-97300 CAYENNE

GUINEA

GUI / 3X / 61800-61849 / GU / 89C6

AIR Ministere des Transports; Direction Generale de l'Aviation Civile; BP 95; CONAKRY

ALC Air Guinee; BP 715; CONAKRY

MAR (Conakry R via DGT Conakry)

MAR (Kamsar R via DGT Conakry)

PTT Direction Generale des Telecommunications; CONAKRY

GUINEA-BISSAU

GNB / J5 / 61750-61799 / GG / 89B5

AIR Direccao-Geral da Aviacao; Servico da Aeronautica Civil; CP 77; BISSAU

ALC Transportes Aereos da Guine-Bissau; CP 111; BISSAU

GUYANA GUY / 8R / 81000-81199 / SY / 117A1

AIR Ministry of Transport; Civil Aviation Department; Oranapai Towers - Wights Lane; Kingston; POB 1006; GEORGETOWN
ALC Guyana Airways Corp; 32 Main Street; POB 10223; GEORGETOWN
MAR (Demerara R via GUYTELCO Georgetown)
PTT Guyana Telecommunication Corp; POB 10628; GEORGETOWN

HAITI HTI / HH 4V / 78400-78449 / MT / 116H5

AIR Secretairerie d'Etat des Travaux Publics, des Transports et des Communications; Office National de l'Aviation Civile - OFNAC; Aeroport International Francois Duvalier; BP 1346; PORT-AU-PRINCE
ALC Haiti Trans Air SA; BP 2526; PORT-AU-PRINCE

HAWAII HWA / see United States of America / 91155-91999 91280-91293 91902-91903 / PH / 114

AIR Honolulu Volmet Radio KVM70; Facility Chief; Federal Aviation Administration; Honolulu Flight Service Station; International Airport; HONOLULU, HI 96891
ALC Aloha Airlines Inc; POB 30028; HONOLULU, HI 96820
ALC Discovery Airways Inc; 90 Nakolo Place; HONOLULU, HI 96819
ALC Hawaiian Air; POB 30008; International Airport; HONOLULU, HI 96820
MET U.S. Department of Commerce; National Oceanic and Atmospheric Administration; National Weather Service Pacific Region; Box 50027; HONOLULU, HI 96850-4993
NAV Naval Western Oceanography Center; Commanding Officer; POB 113; PEARL HARBOUR, HI 96860-5050
TSF Department of Commerce; National Bureau of Standards; Station WWVH; Engineer-in-Charge; POB 417; Kekeha; KAUAI, HI 96752

HONDURAS HND / HQ-HR / 78700-78724 / MH / 105L2

AIR Direccion General de Aeronautica Civil; Departemento de Operaciones; Aeropuerto Internacional Toncontin; Apartado T-245; TEGUCIGALPA
ALC Servicio Aereo de Honduras SA; Apartado 129; TEGUCIGALPA
ALC Servicios Aereos Generales SRL; Aeropuerto Tancontin; TEGUCIGALPA
ALC Transportes Aereos Nacionales SA; Edificio TAN; TEGUCIGALPA

HONG KONG HKG / see United Kingdom / 45000-45010 45030-45040 / VH / 23A10

AIR Civil Aviation Department; Acting Chief; United Centre, 10th Floor; 95 Queensway; HONG KONG
ALC Cathay Pacific Airways Ltd; Swire House; 9 Connaught Road; Central; HONG KONG
ALC Dragonair; 12/F Tower 6; 33 Canton Road; Tsimshatsui; Kowloon; HONG KONG
MAR (Victoria Island R via C+W Victoria Island)
PRS (AFP Victoria Island via AFP Paris, France)
PTT Cable and Wireless (Hong Kong) Ltd; New Mercury House; 22 Fenwick Street, Wanchai; GPOB 597; CAPE D'AGUILAR

HOWLAND ISLAND HWL / see United States of America / - / - / 122A3

HUNGARY HNG / HA HG / 12700-12999 / LH / 81D3

AIR Ministry of Transport; General Directorate of Civil Aviation; Pf. 53; H-1675 BUDAPEST

ALC	Malev; Roosevelt ter 2; H-1052 BUDAPEST
MAR	Coastal Station HAR; Budapest Naval Radio; Societe Anonyme des Navigations Hongroises (MAHART); Ministry of Posts and Communications; H-1... BUDAPEST
NAV	(HN Budapest via Budapest R)
PRS	Magyar Tavirati Iroda; Fem u. 5-7; H-101. BUDAPEST
PTT	Administration Centrale des Postes et Telecommunications de Hongrie; H-1540 BUDAPEST

ICELAND

ISL / TF / 04000-04099 / BI / 50

AIR	Directorate of Civil Aviation; POB 350; IS-121 REYKJAVIK
ALC	Atlanta Icelandic Air Transport; Thverholt 3; IS-270 MOSFELLSSBAE
ALC	Eagle Air of Iceland; POB 8440; IS-128 REYKJAVIK
ALC	Icelandair; IS-101 REYKJAVIK
MAR	(Reykjavik R via PTT Gufunes)
PTT	Gufunes Telecommunications Centre; Station Manager; POB 270; IS-121 REYKJAVIK

INDIA

IND / AT-AW VT-VW 8T-8Y / 42000-43399 / VA VE VI VO / 27M5

AIR	Civil Aviation Department; Aeronautical Communications Station; Controller of Communications; Santacruz International Airport; BOMBAY 400 057
AIR	Civil Aviation Department; Calcutta Region; Office of the Regional Director; Assistant Communications Officer; R-463 B New Quarters; Calcutta Airport; CALCUTTA 700 052
AIR	Civil Aviation Department; Office of the Regional Director; Aeronautical Communication Station; Director; Delhi Airport; Palam; NEW DELHI 110 010
AIR	National Airport Authority; Senior Communications Officer; Madras Airport; MADRAS 27
ALC	Air India; Air India Building; Nariman Point; BOMBAY 400 021
ALC	Indian Airlines; Airlines House; 113 Gurdwara Rakabganj Road; Parliament Street; NEW DELHI 110 001
MAR	Coastal Radio Station VWB; Bombay Telephone District; Chief Radio Operator; BOMBAY
MAR	Calcutta Radio; Alipore Observatory; CALCUTTA
MAR	P. & T.; Madras Radio VWM; Tiruvottiyur; MADRAS 600 019
MET	Indian Meteorological Department; Office of the Director General of Meteorology; Mausam Bhavan; Lodi Road; NEW DELHI 110 003
NAV	Naval Communications Centre; Officer-in-charge; Shahid Bhagat Singh Road; BOMBAY 400 001
PRS	(MEA Delhi via PTI Delhi)
PRS	The Press Trust of India Ltd; Coordinator Sat Project; PTI Building; 4 Parliament Street; NEW DELHI 110 001
PTT	Ministry of Communications; Department of Telecommunications; Sanchar Bhavan; 20 Ashoka Road; NEW DELHI 110 001
TSF	National Physical Laboratory; Time and Frequency Division; Assistant Director; Hillside Road; NEW DELHI 110 012

INDONESIA

INS / JZ PK-PO YB-YH 7A-7I 8A-8I / 96000-96299 96500-97999 / WA WI WP WR /17H13

AIR	Direktorat Telekomunikasi, Navigasi Udara dan Listrik; Gedung Operasi Pelabuhan Udara Kemayoran; Sub Directorate of Telecommunication Facilities; Head; Jalan Angkasa 8; Kemayoran; POB 3109; JAKARTA
ALC	Bayu Indonesia Air PT; Jalan Hayam Wuruk 4XJ; POB 3586; JAKARTA-PUSAT
ALC	Garuda Indonesia; Medan Merdeka Selatan 13; JAKARTA 10110
ALC	Mandala Airlines PT; Jalan Garuda 76; POB 3706; JAKARTA
ALC	Merpati; Kotak Pos 323; JAKARTA 10002
ALV	Pelita Air Service PT; Jalan Abdul Muis 52-54; JAKARTA 10160
MAR	(Belawan R via Jakarta R)
MAR	(Bitung R via Jakarta R)
MAR	Jakarta Radio PKX; c/o Departemen Perhubungan; Direktorat Jenderal Perhubungan Laut;

	Head of Marine Electronics & Telecommunications Division; Medan Merdeka Timur No. 5; JAKARTA
MAR	(Jayapura R via Jakarta R)
MAR	(Makassar R via Jakarta R)
MAR	Stasion Radio Pantai; Palembang Radio PKC; PALEMBANG
MAR	(Semarang R via Jakarta R)
MAR	Surabaja Radio PKD; Setasiun Radio Perum TEL; Jebel Ketintant I568; SURABAYA
MET	Badan Meteorologi dan Geofisika; Departemen Perhubungan; Chief Telecommunication and Instrumentation Division; Jalan Arief Rakhman Hakim 3; POB 3540; JAKARTA

INTERNATIONAL CIVIL AVIATION ORGANIZATION - / 4Y / - / - / -

IRAN IRN / EP-EQ 9B-9D / 40700-40899 / OI / 32

AIR	Civil Aviation Organization; International Affairs and Air Transport; Mehrabad International Airport; POB 11365-8315; TEHRAN
ALC	Iran Air; Iran Air Building; POB 13185-775; Mehrabad Airport; TEHRAN
ALC	Iran Asseman Airlines; POB 14-1748; Mehrabad Airport; TEHRAN
EMB	Swedish Embassy; POB 15875-4313; TEHRAN
MAR	(Abadan R via PTT Tehran)
PRS	Islamic Republic News Agency; Technical Deputy to Managing Director; 873 Vali Asr Avenue; TEHRAN
PTT	Ministry of Posts, Telegraph and Telephone; Directorate General of Telecommunications; POB 11365-931; 16314 TEHRAN

IRAQ IRQ / HN YI / 40600-40699 / OR / 34H5

AIR	State Organization of Iraqi Civil Aviation; Al-Fourat Avenue; POB 6179; Saddam International Airport; BAGHDAD
ALC	Iraqi Airways; Saddam International Airport; BAGHDAD
MAR	Transmission Engineer; Basrah Control Radio YIR; Iraqi Ports Administration; BASRAH
PRS	Iraqi News Agency; Adu Nawwas Street; BAGHDAD

IRELAND IRL / EI-EJ / 03950-03999 / EI / 59

AIR	Shannon Airadio; Ballygireen; NEWMARKET-ON-FERGUS, Co Claire
ALC	Aer Lingus PLC; POB 180; DUBLIN AIRPORT
ALC	Aer Turas Teoranta; Corballis Park; DUBLIN AIRPORT
ALC	Ryanair Ltd; College Park House; Nassau Street; DUBLIN 2
MAR	Marine Rescue Co-Ordination Centre; Department of Communications; Officer-in-Charge; Wing 5; Terminal Building; SHANNON AIRPORT
MAR	Valentia Radio; Officer in Charge; VALENTIA ISLAND, Co Kerry
MIL	OC Army HQ Signal Company; McKee Barracks; DUBLIN 7

ISRAEL ISR / 4X 4Z / 40150-40199 / LL / 34B6

AIR	Israel Airports Authority; POB 137; IL-70100 BEN GURION INTERNATIONAL AIRPORT
ALC	Arkia Israel Airlines Ltd; POB 39301; Dov Airport; IL-61392 TEL AVIV
ALC	El Al Israel Airlines Ltd; Director of System Control; POB 41; IL-70100 BEN GURION INTERNATIONAL AIRPORT
MAR	Ministry of Transport; Haifa Radio 4XO; POB 33993; IL- HAIFA
NAV	Haifa Naval Radio 4XZ; Communications Officer; Navy Base; IL- HAIFA

ITALY

I / I / 16000-16595 / LI / 77

AIR Aeronautica Militare Italiana; Ispettorato Telecomunicazioni e Assistenzia al Volo; 2. Reparto "Traffico Aereo"; Piazzale degli Archivi 34-36; I-00100 ROME
ALC Aerotaxi Sud SPA; Via Chiatamone 55; I-80121 NAPOLI
ALC Air Europe SPA; Hangar 39; Aeroporto; CP 15; I-24050 ORIO AL SERIO
ALC Alisarda SpA; 193 Corso Umberto; I-07026 OLBIA
ALC Alitalia; Palazzo Alitalia; Piazzale Giulio Pastore 6; I-00144 ROME
ALC Eurofly SPA; Aeroporto "Citta di Torino"; I-10072 CASELLE TORINESA
ALC Linee Aeree Nazionali; Capodichino Airport; I-80144 NAPOLI
ALC Unifly Express SPA; Aeroporto Ciampino; I-00040 ROME
MAR Augusta Radio IQA; Via Marina di Ponente; Palazzo Poste; I-96011 AUGUSTA
MAR Amministrazione delle Poste e delle Telecomunicazioni; Ufficio Principale Radio PT; Strada Adriatica Sud nr. 76/C; I-70100 BARI
MAR Stazione Costera "Civitavecchia Radio"; Via G. Bruno 11; Palazzo PTT; I-00053 CIVITAVECCHIA
MAR Genova Radio ICB; Ufficio Principale Radio PT; Il Direttore; Via Romana della Castagna 23; I-16148 GENOVA-QUARTO
MAR Ufficio Principale Radio PT; Centro Radiostazione Transmarittima; Via delle Pianacce 49; Antignano; I-57100 LIVORNO
MAR Direzione Provinziale delle Poste e Telecomunicazioni di Messina; Centro Radio PT; I-98100 MESSINA
MAR Societa Italiana Radio Marittimo; Il Direttore del Napoli PT Radio; I- NAPOLI
MAR Ufficio Principale Radio PT; I-07046 PORTO TORRES
MAR Amministrazione delle Poste e delle Telecomunicazioni; Ufficio Principale; Roma Radio PT; Reparto Radioricivente; Il Direttore Reggente; Via delle Mercede 96; I-00100 ROME
MAR Stazione Radio Costera PT; Via Curzi 24; I-63039 SAN BENEDETTO DEL TRONTO
MAR Ufficio Principale Radio PT; Il Dirigente; I-91100 TRAPANI
MAR Ufficio Principale Radio PT Trieste; Il Direttore; Via Bellavista 4; I-54100 TRIESTE
MET Aeronautica Militare Italiane; Ispettorato Telecomunicazioni e Assistenzia al Volo; 3. Reparto - Servizio Meteorologico; 3. Centro - Elaborazioni Elettroniche e Telecomunicazioni Meteorologiche; Piazzale degli Archivi 34-36; I-00100 ROME
NAV Radio Marina Militare; Commanding Officer; Via della Storta 701; I-00123 ROME
PRS (ANSA Rome via ITALCABLE Rome)
PTT Servizi Cablografici, Radiotelegrafici e Radioelettrici SPA; Via Calabria 46-48; I-00187 ROME
TSF Instituto Superiore delle Poste e delle Telecomunicazioni; Uff. 8; Rep. 3.; Viale Europa; I-00100 ROME
TSF Instituto Elettrotecnico Nazionale; Corso Massimo d'Azeglio 42; I-10125 TORINO

IVORY COAST

CTI / TU / 65526-65599 / DI / 89F7

AIR ASECNA; Representation en Cote d'Ivoire; Departement de l'Infrastructure Radioelectrique; BP 990; ABIDJAN 15
ALC Air Afrique; BP 3927; ABIDJAN 01
MAR (Abidjan R via PTT Abidjan)
PTT Office des Postes et Telecommunications de la Republique de Cote d'Ivoire; Centre Recepteur de Marcory; Le Chef de Centre; ABIDJAN

JAMAICA

JMC / 6Y / 78387-78399 / MK / 116M2

AIR Civil Aviation Department; 9 Trinidad Terrace; POB 4000; KINGSTON 5
ALC Air Jamaica Ltd; 72 - 76 Harbour Street; KINGSTON
MAR (Kingston R via JAMINTEL Kingston)
PTT Jamaica International Telecommunications Limited; Supervisor; 15 North Street; POB 138; KINGSTON

JAPAN

J / JA-JS 7J-7N 8J-8N / 47200-47999 / RJ RO / 20

AIR	N.T.I.A.; Aviation Weather Service Center; Liaison Officer; Japan Meteorological Agency; New Tokyo International Airport; 133 Aza Komomae Furugome; NARITA CITY, Chiba Prefecture
ALC	All Nippon Airways; 2-5 Kasumigaseki 3-chome; Chiyoda-ku; TOKYO 100
ALC	Japan Air Lines; Dai 2 Tekko Building; 7-3 Marunouchi 2-chome; Chiyoda-ku; TOKYO 100
ALC	Japan Air System Co Ltd; 4th Floor; 18 Mori Building; 3-13 Toranomon 2-chome; Minato-ku; TOKYO 105
ALC	Japan Asia Airways; Yurakucho Denki Building; Minami-ken; 7-1 Yurakucho 1-chome; Chiyoda-ku; TOKYO 100
ALC	Nippon Cargo Airlines Co Ltd; Kasumigaseki Building 27F; 2-5 Kasumigaseki 3-chome; Chiyoda-ku; TOKYO 100
ALC	Southwest Air Lines Co Ltd; 306 Kagamizu; NAHA CITY 901, Okinawa
MAR	Choshi Radio; Kobatakeshinmachi 7756; CHOCHI-CITY
MAR	(Matsudo F R =) Chuo Gyogyo Radio; Central Fishering Radio JFA; 62 Futawacho; FUNABASHI CITY, Chiba Pref.
MAR	Nippon Telegram and Telephone Public Corp; Coastal Station Nagasaki Radio; 14-1 Hinode-cho; ISAHAYA-CITY 854
MAR	Naha Radio; Nippon Telegraph and Telephone Public Corp; Director; 1-14-1 Sobe; NAHA 900, Okinawa
MAR	(Tokyo R via KDD Tokyo)
MET	Ministry of Transport; Japan Meteorological Agency; Synoptic Reporting Division; Chief of Section; 3-4 Ote-machi 1-chome; Chiyoda-ku; TOKYO 100
NAV	(JNA =) Japan Maritime Safety Agency; Chief Communications Officer; 1-3 Kasumigaseki 2-chome; Chiyoda-ku; TOKYO 100
PRS	Jiji Tsushin Sha; The Jiji Press; External Traffic Section; Chief; Shisei Kaikan Building; 1-3 Hibiya Koen; Chiyoda-ku; POB 15; Tokyo International Airport; TOKYO
PRS	Kyodo News Service; Head Office; Communication Department; Radio and Cable Section; Supervisor of Verification; 2-2-5, Toranomon; Minato-ku; TOKYO 105
PRS	(PL Tokyo via KDD Tokyo)
PTT	Kokusai Denshin Denwa Co Ltd; KDD Building; 3-2 Nishi-Shinjuku 2-chome; Shinjuku-ku; POB 1; TOKYO 163
TSF	Ministry of Posts and Telecommunications; Radio Research Laboratories; Frequency Standard Division; 4-1-3 Midori-cho; Koganei 184; TOKYO

JARVIS ISLAND

JAR / see United States of America / 91901 / PLUR / 122B3

JOHNSTON ISLAND

JON / see United States of America / 91275 / PJ / 122K6

JORDAN

JOR / JY / 40250-40349 / OJ / 34D7

AIR	Amman Airport; AFTN Com Centre; Supervisor; AMMAN
ALC	Royal Jordanian; POB 302; AMMAN
MAR	(Aqaba R via PTT Amman)
MET	Ministry of Transport; Jordan Meteorological Department; The General Director; Marka; Amman Civil Airport; POB 341011; AMMAN
PRS	PETRA; Jordan News Agency; POB 6845; AMMAN
PTT	Telecommunications Corp; POB 1689; AMMAN

KENYA

KEN / 5Y-5Z / 63612-63820 / HK / 93G5

AIR	Office of the Director General of Civil Aviation; POB 30163; NAIROBI
ALC	African Safari Airways Ltd; Postfach 158; CH-4030 BASEL Flughafen; Switzerland
ALC	Kenya Airways Ltd; POB 19002; NAIROBI
ALC	Lennox Airways; POB 69459; NAIROBI

MAR	Mombasa Radio; c/o Kenya External Telecommunications Company Ltd; Extelcom House; Branch Engineer; Nyerere Avenue; POB 80160; MOMBASA
MET	Ministry of Transport and Communications; Kenya Meteorological Department; Office of the Director of Meteorological Services; Directorate; Dagoretti Corner, Ngong Road; POB 30259; NAIROBI

KERGUELEN ISLANDS

KER / see France / - / - / 26R16

PTT	Le Gerant Postal; PORT-AUX-FRANCAIS

KIRIBATI

KIR / T3 / 91484-91491 91533 91600- 91629 / NGA-NGB NGM-NGU PLC-PLF / 9B5

AIR	Ministry of Communications; Directorate of Civil Aviation; Secretary of Communications; POB 72; BAIRIKI, Tarawa Atoll
MAR	(Takaronga R via PTT Bairiki)
PTT	Ministry of Communications; POB 72; BAIRIKI, Tarawa Atoll

KOREA (DEMOCRATIC PEOPLE'S REPUBLIC OF)

KRE / HM P5-P9 / 47000-47079 / ZK / 21D7

AIR	Civil Aviation Administration; Directorate General; Sunan District; PYONGYANG
ALC	Chosonminhang Korean Airways; Sunan District; PYONGYANG
PRS	(KCNA Pyongyang via PTT Pyongyang)
PTT	Ministry of Communications; Department of International Relations; Korean Central Wireless Station; Oesong-Dong; Central District; PYONGYANG

KOREA (REPUBLIC OF)

KOR / DS-DT D7-D9 HL 6K-6N / 47080-47199 / RK / 21E9

AIR	Ministry of Transportation; Civil Aviation Bureau; Kimpo International Airport; SOUL 150 01
ALC	Asiana Airlines Inc; Asiana Building; Suite 194-15; 1-ka; Hoehyun-dong; Chung-ku; SOUL
ALC	Korean Air; KAL Building; Namdaemun-Ro 118, 2-ga; Chung-gu; CPOB 864; SOUL
MAR	Pusan Radio; c/o ** Chung Hae Young; Sen-gu Sendaesin-Dong; 3 Ka 172 13-1; PUSAN
MET	Ministry of Science and Technology; Korean Meteorological Service; Technical Development Department; 1 Songwol-Dong; Chongno-Gu; SOUL 110
PRS	Yonhap News Agency; Director of Transmissions; 98-5 Uni-Dong; Chongro-Ku; POB 1039; SOUL
TSF	Korea Standards Research Institute; Time and Electromagnetics Standards Laboratory; Taedok Science Town; POB 3; TAEJON 300-31

KUWAIT

KWT / 9K / 40550-40599 / OK / 34P9

AIR	Directorate General of Civil Aviation; Kuwait International Airport; POB 17; SAFAT
ALC	Kuwait Airways Corp; POB 394; 13004 SAFAT
MAR	(Safat R via PTT Safat)
PTT	Ministry of Communications; Chief Radio Engineer; SAFAT

LAOS

LAO / XW / 48921-48959 / VL / 25G3

AIR	Ministere de la Defense Nationale; Direction de l'Aviation Civile; 2 Chemin Pang Kham; BP 119; VIENTIANE
ALC	Lao Aviation; 2 Rue Pang Kham; BP 119; VIENTIANE

LEBANON

LBN / OD / 40100-40149 / OL / 34C4

AIR Telecommunications Services; Chief; Beirut International Airport; BEIRUT
ALC Middle East Airlines; BP 206; BEIRUT
ALC Trans Mediterranean Airways; BP 11-3018; International Airport; BEIRUT
MAR (Beirut R via OGERO Beirut)
PTT Organisme de Gestion et d'Exploitation des installations et des equipements de l'ex-Societe Radio Orient; Ingenieur du Centre de Emission; BP 1226; BEIRUT

LESOTHO

LSO / 7P / 68454 / FX / 95L5

AIR Department of Civil Aviation; POB 629; MASERU 100
ALC Lesotho Airways Corp; POB 861; MASERU 100

LIBERIA

LBR / A8 D5 EL 5L-5M 6Z / 65600-65699 / GL / 89D8

AIR Roberts International Airport; Telecommunications Department; POB 1; MONROVIA
ALC Jet Cargo Liberia; Building 70; Suite 138; NL-1117 AA SCHIPHOL EAST; Netherlands
ALC Liberia World Airlines Inc; POB 24; Hangar 5; B-8400 OOSTENDE AIRPORT; Belgium
ALC Transway Air International Ltd; Unit A1; 9th Floor; Ground House; North Circular Road; LONDON NW10 7BN; United Kingdom

LIBYA

LBY / 5A / 62000-62299 / HL / 85B6

AIR Department of Civil Aviation; Director of Technical Services; Tripoli International Airport; TRIPOLI
ALC Libyan Arab Airlines; POB 2555; TRIPOLI
MAR Benghazi Radio 5AB; Maritime Radiotelegraph Station; Telecommunications Department; POB 9464; BENGHAZI
MAR Tobruk Coast Station; Radio Officer; POB 44; TOBRUK
PRS Jamahiriyah News Agency; Technical Department; POB 2303; TRIPOLI

LIECHTENSTEIN

LIE / see Switzerland / 06990 / LSXB / 66P3

LUXEMBOURG

LUX / LX / 06580-06599 / EL / 61o7

AIR Ministere des Transports; Service Aeronautique; 19-21 Boulevard Royal; L-2910 LUXEMBOURG
ALC Cargolux Airlines International SA; BP 591; L-2015 LUXEMBOURG
ALC Lionair; BP 591; L-2015 LUXEMBOURG
ALC Luxair; BP 2203; L-2987 LUXEMBOURG

MACAO

MAC / see Portugal / 45011-45020 / VM / 23F7

MAR (Macao R via DSCT Macao)
PTT Direccao dos Servicos de Correios e Telecomunicacoes; Largo do Senado; MACAO

MADAGASCAR

MDG / 5R-5S 6X / 67009-67199 / FMM-FMS / 95A2

AIR ASECNA; Representation de Madagascar; Service Meteorologique; Ingenieur en Chef de la Navigation Aerienne; BP 46; ANTANANARIVO
ALC Air Madagascar; 31 Avenue de l'Independance; BP 437; ANTANANARIVO

MET Ministere des Transports, de la Meteorologie et du Tourisme; Direction de la Meteorologie Malgache; BP 1254; ANTANANARIVO

MADEIRA MDR / see Portugal / 08521-08524 / see Portugal / 9606

ALC Air Columbus SA; Aeroporto do Funchal Santa Catarina; P-9100 SANTA CRUZ
MAR (Funchal R via CPRM Funchal)
NAV Estacao Radionaval; Director; P-9400 PORTO SANTO
PTT Companhia Portuguesa Radio Marconi; Estacao do Madeira; O Garante de Funchal; Avenida Arriaga 7 e 9; P-9000 FUNCHAL

MALAWI MWI / 7Q / 67421-67797 / FW / 92F7

AIR Chief Civil Aviation Officer; Private Bag 322; LILONGWE 3
ALC Air Malawi; POB 84; BLANTYRE

MALAYSIA MLA / 9M 9W / 48600-48679 96400-96499 / WBB WBF-WBK WM / 18

AIR Department of Civil Aviation; Aeronautical Mobile Service; Operations Manager; KL International Airport; 47200 SUBANG
ALC Malaysia Airlines; Jalan Sultan Ismail; 33rd Floor; Bangunan MAS; 50250 KUALA LUMPUR
MAR (Kuching R via STM Kuching)
MAR Stesen Pantai (Penerimaan); Jabatan Telekom; Kuala Muda; 13110 PENANG
MET Ministry of Science, Technology & Environment; Malaysian Meteorological Service; Forecasting Services Department; Jalan Sultan; PETALIN JAYA
NAV Royal Malaysian Navy; Radio Station 9MB; Communications Officer; 32100 LUMUT
PTT Syarikat Telekom Malaysia Berhad; Jalan Simpang Tiga; 93672 KUCHING, Sarawak

MALDIVES MLD / 8Q / 43500-43599 / VR / 27L9

AIR Civil Aviation Authority; Dhoshimeynaa Building; Ameer Ahmed Magu; MALE 20-05

MALI MLI / TZ / 61200-61399 / GA / 89G4

AIR Representation de l'ASECNA; BP 36; BAMAKO
ALC Air Mali; BP 27; BAMAKO

MALTA MLT / 9H / 16596-16599 / LM / 83Y19

AIR Telecommunications Officer; Air Traffic Control Center; Department of Civil Aviation; Civil Airport Building; LUQA
ALC Air Malta Co; LUQA

MARIANAS (NORTHERN) MRA / see United States of America / 91218-91232 / PGR-PGS / 1708

ALC Air Micronesia Inc; POB 298; SAIPAN 96950

MARION ISLAND MRN / see South Africa (Republic of) / 68994 / FAME / 26A14

PTT (PTT Transvaal Cove via Cape Town R, Republic of South Africa)

MARSHALL ISLANDS
MRL / V7 / 91250-91258 91364-91378 / PK / 9A2

ALC Airline of the Marshall Islands; POB 959; MAJURO 96960

MARTINIQUE
MRT / see France / 78915-78929 / TFFD-TFFF / 116L4

AIR Direction Regionale de l'Aviation Civile aux Antilles et en Guyane; BP 644; F-97262 FORT DE FRANCE
ALC Air Martinique; Aeroport de Fort de France; F-97232 LE LAMENTIN
MAR (Fort de France R via DTRE Fort de France)
NAV (FF Fort de France via FN Paris, France)
PTT Centre Radioelectrique; Le Chef de Centre Exploitation; BP 604; F-97621 FORT DE FRANCE

MAURITANIA
MTN / 5T / 61400-61599 / GQ / 89B1

AIR ASECNA; Chef Station 5TX/GQPPYF; BP 6; Aerodrome; NOUADHIBOU
AIR ASECNA; Representation au Mauritanie; BP 205; NOUAKCHOTT
ALC Air Mauritanie; BP 41; NOUAKCHOTT 174
MAR Compagnie Radio Maritime; BP 50; NOUADHIBOU

MAURITIUS
MAU / 3B / 61974-61995 / FIMM FIMP / 26T11

AIR Department of Civil Aviation; Principal Engineer; Plaisance International Airport; PLAINE MAGNIEN
ALC Air Mauritius Ltd; Rogers House; 5 President John Kennedy Street; PORT LOUIS
MAR Telecommunications Authority; Ex-Telecommunications Headquarters Building; Edith Cavell Street; PORT LOUIS
MET Prime Minister's Office; External Communications; Meteorological Department Headquarters; Bigara Meteorological Station; The Observatory; Route Saint Paul; VACOAS

MAYOTTE ISLAND
MYT / see France / 67005 / FMCZ / 95B2

MEXICO
MEX / XA-XI 4A-4C 6D-6J / 76000-76999 / MM / 115

AIR SENEAM; Jefe del Departemento de Radio; Calle 49 No. 560 y 78 y 80; MERIDA
AIR Oficina de Servicios de Informacion Aeronautica; Departemento de Operaciones; Nueva Torre de Control; Bulevar Puerto Aereo 485; Delegacion Venustiano Carranza 15500; MEXICO CITY
ALC Aerocalifornia; Hidalgo 316; Apartado 555; 23000 LA PAZ
ALC Aerocancun; Super Manzana 93; Manzana 19; Lote 2B; Libramiento Kabah; 77500 CANCUN
ALC Aeromexico; Paseo de la Reforma 445; 06500 MEXICO CITY
ALC Aero Pacifico; Aeropuerto; 23000 LA PAZ
ALC La Tur; Periferico Sur 3190; Piso 3; 01900 MEXICO CITY
ALC Mexicana; Xola 535; Colonia del Valle; Apartado 12813; 03600 MEXICO CITY
ALC Transportes Aereos Ejecutivos SA; Aviacion General; Zona de Hangares C27; 15620 MEXICO CITY
ALC Transportes de Carga Aerea Especializada y Servicios Aeronauticos; Terminal de Aviacion General; Hangar 3; Zona Naranja; 15620 MEXICO CITY
MAR (Cozumel R via DGT Mexico City)
MAR Estacion Costera XFM; Jefe; Apartado 293; MANZANILLO, Col.
PTT Direccion General de Telecomunicaciones; Direccion de Operacion Central; Departemento de Comunicaciones Radioelectricas; Oficina de Operaciones de Estaciones Fijas; Avenida Lazaro Cardenas 567; 03028 MEXICO CITY

MICRONESIA

FSM / V6 / 91203 91317-91356 91408-91434 / PT / 17N10

AIR	National Air Weather Service Office; POHNPEI
ALC	Air Micronesia Inc; Box 298; SAIPAN 96950

MIDWAY ISLAND

MDW / see United States of America / 91066 / PM / 122V2

MONACO

MCO / 3A / - / LN / 71L9

MAR	Monte Carlo Radio; 1 Chemin du Fort Antoine; MC-98000 MONTE CARLO

MONGOLIA

MNG / JT-JV / 44200-44399 / - / 22

ALC	Air Mongol - Miat; Buyant-Ukha Airport; ULAN BATOR

MONTSERRAT

MSR / see United Kingdom / - / TR / 116N6

MOROCCO

MRC / CN 5C-5G / 60100-60349 / GM GS / 88H7

AIR	C.N.C. SA; BP 5239; CASABLANCA-Maarif
AIR	Ministere des Transports; Avenue Ma-El-Aynayne; BP 759; AGDAL-RABAT
ALC	Royal Air Maroc; Aeroport Anfa; CASABLANCA
MAR	Agadir Radio CND; BP 810; AGADIR
MAR	Centre Radioelectrique de Casablanca-Radio CNP; Le Chef du Centre Radiotelegrafique; CASABLANCA-BOURGOGNE
MAR	(Tanger R via ONPT Rabat)
PRS	Maghreb Arabe Presse; Le Chef d'Exploitation; Rue Ibn Aicha; BP 1049 RP; RABAT
PRS	Voice of America; Director; POB 162; TANGER
PTT	Office National des Postes et Telecommunications; Direction des Telecommunications; Le Chef du Service des Transmissions; 6 Rue Oqbah (Agdal); RABAT

MOZAMBIQUE

MOZ / C8-C9 / 67200-67399 / FQ / 84H8

AIR	Secretaria de Estado da Aeronautica Civil; Divisao de Intercambio Aeronautico; Alameda do Aeroporto; CP 227; MAPUTO
ALC	Linhas Aereas de Mocambique; CP 2060; MAPUTO
MAR	(Maputo R via PTT Maputo)
MAR	(Mocambique R via PTT Maputo)
PTT	Telecomunicacoes de Mocambique; CP 25; MAPUTO

MYANMAR

MYA / XY-XZ / 48000-48299 / VB / 25

AIR	Department of Civil Aviation; Mingaladon Airport; YANGON
ALC	Myanmar Airways Corp; 104 Strand Road; YANGON
MAR	(Yangon R via PTT Yangon)
PTT	Myanmar Posts and Telecommunication; Ground Floor; 125 Pansodan Street; YANGON

NAMIBIA

NMB / see South Africa (Republic of) / 68006-68312 / see South Africa (Republic of) / 94C4

ALC	Namib Air Pty Ltd; POB 731; WINDHOEK 9100

NAURU

NRU / C2 / 91530 / AN / 9A8

AIR	Department of Civil Aviation; Flight Service Officer; POB 282; NAURU
ALC	Air Nauru; International Airport; NAURU

NEPAL

NPL / 9N / 44400-44499 / VN / 29H3

AIR	Ministry of Tourism; Department of Civil Aviation; Engineering Section; Sinamangal; KATHMANDU
ALC	Royal Nepal Airlines; RNAC Building; Kanti Path; KATHMANDU

NETHERLANDS

NLD / PA-PI / 06200-06399 / EH / 60

AIR	(Amsterdam Air via) Rijksluchtvaartdienst; Albert-Plesman-Weg 1-6; NL- DEN HAAG
ALC	Air Holland NV; Postbus 75116; NL-1117 ZR SCHIPHOL EAST
ALC	KLM Royal Dutch Airlines; Hoofkantoor; Telecommunications Department; Amsterdamse Weg 55; NL-1182 GP AMSTELVEEN
ALC	Martinair Holland NV; Postbus 7507; NL-1118 ZG SCHIPHOL
ALC	NLM City Hopper BV; Postbus 7700; NL-1117 ZL SCHIPHOL EAST
ALC	Schreiner Airways BV; Verbeekstraat 10-12; NL-2332 CA LEIDEN
ALC	Transavia Airlines; Postbus 7777; NL-1118 ZM SCHIPHOL
MAR	Inspectie Kust- en Scheepsradio; Scheveningsweg 6; NL- 'S- GRAVENHAGE
MFA	Ministry of Foreign Affairs; Postbus 20061; NL-2500 EB DEN HAAG
NAV	(DN Goeree Island =) Officer in Charge; Netherlands Naval Station; Noraweg 20; NL-2210 AB NORDWIJKERSHOUT

NETHERLANDS ANTILLES

ATN / PJ / 78985-78994 / TN / 116K8

AIR	Curacao Airadio; Chief Radio Officer; Curacao Airport; WILLEMSTAD, Curacao
ALC	Antilliaanse Luchtvaart Maatschappij; Aeropuerto Hato; WILLEMSTAD, Curacao
MAR	(Willemstad R via LTT Willemstad)
PTT	Lands Radio en Telegraafdienst; Telecommunications Administration; Head Office; Schouwburgweg 22; POB 103; WILLEMSTAD, Curacao

NEW CALEDONIA AND DEPENDENCIES

NCL / see France / 78825
91570-91599 / NW / 9B13

AIR	Direction de l'Aviation Civile; BP H1; NOUMEA Cedex
ALC	Air Caledonie International; 8 Rue Frederic-Surleau; BP 3736; NOUMEA
MAR	Noumea Radio; BP 224; NOUMEA
NAV	Commandement de la Marine Nationale; Service "Transmissions"; Officier des Telecommunications; NOUMEA

NEW ZEALAND

NZL / ZK-ZM / 91997 93000-93999 / NZ / 11

AIR	Ministry of Transport; Civil Aviation Division; Station Communications Officer; POB 53008; International Airport; AUCKLAND
ALC	Air New Zealand Ltd; Air New Zealand House; 1 Queen Street; Private Bag; AUCKLAND 1
ALC	Ansett New Zealand; 50 Grafton Road; AUCKLAND
MAR	Awarua Radio ZLB; Acting Manager; Private Bag; INVERCARGILL
MAR	Waitangi Radio ZLC; Acting Manager; WAITANGI, Chatham Islands
MET	Ministry of Transport; New Zealand Meteorological Service; Auckland Weather Centre; Electronic Maintenance Unit Northern Region; Senior Technical Officer; 30 Ponsonby Road; Newton; POB 68-429; AUCKLAND 1

NICARAGUA

NCG / HT H6-H7 YN / 78725-78749 / MN / 115L3

AIR	Ministerio de Transporte; Director General de Aereonautica Civil; Plaza Espana, Edificio 17; Apartado 4936; MANAGUA J.R.
ALC	Aeronica; Apartado 3688; MANAGUA

NIGER

NGR / 5U / 61000-61199 / DR / 90C3

AIR	Representation de l'ASECNA; BP 1096; NIAMEY-AEROPORT

NIGERIA

NIG / 5N-5O / 65000-65299 / DN / 90C7

AIR	Kano Airadio; Aviation Division; Kano Airport; KANO
AIR	(Lagos Air =) Federal Ministry of Transport and Aviation; Civil Aviation Department; Signal Section; Principal Technical Officer; Murtala Muhammed Airport; Private Mail Bag 1038; IKEJA
ALC	Executive Aviation Services Cargo Airlines; POB 11965; KANO
ALC	Flash Airlines Ltd; 55 2nd East Secular Road; BENIN CITY
ALC	General & Aviation Services Ltd; POB 21231; IKEJA
ALC	Kabo Air; POB 1850; KANO
ALC	Nigerian Airways Ltd; POB 1024; IKEJA
ALC	Okada Air Ltd; Airport Road; BENIN CITY
MAR	(Lagos R via NITEL Lagos)
MET	Federal Ministry of Aviation; Meteorological Department; Telecommunications Division; Private Mail Bag 12542; LAGOS
PTT	Nigerian Telecommunications Ltd; QSL Manager; NECOM House 15; Marina POB 173; Private Mail Bag 12742; LAGOS

NIUE ISLAND

NIU / see New Zealand / 91822-91823 / NI / 10T5

AIR	Ministry of Transport; Civil Aviation Division; Aerodrome Superintendent; Hanan International Airport; POB 83; NIUE

NORFOLK ISLAND

NFK / see Australia / 94996 / ASNF / 10V10

NORWAY

NOR / JW-JX LA-LN 3Y / 01000-01499 / EN / 49G4

AIR	Civil Aviation Administration; Postboks 8124 Dep.; N-0032 OSLO
ALC	Air Europe Scandinavia; POB 250; N-4056 TANANGER
ALC	Braathens SAFE; Postboks 55; N-1330 OSLO LUFTHAFN
ALC	Busy Bee of Norway AS; POB 115; N-1331 OSLO AIRPORT
ALC	Fred Olsen Air Transport Ltd; POB 10; N-1330 OSLO-LUFTHAVN
MAR	Alesund Radio; Postboks 279; N-6001 ALESUND
MAR	Bjoernoeya Radio; N-9176 BJOERNOEYA
MAR	Bodoe Radio; Postboks 373; N-8001 BODOE
MAR	Floroe Radio; Markegata 42; N-6900 FLOROE
MAR	Hammerfest Radio; Chief Director; Postboks 185; N-9601 HAMMERFEST
MAR	Rogaland Radio; Postboks 367; N-4310 GANDDAL
MET	(SAM Barentsburg, Spitsbergen via AARI Leningrad, USSR)

OMAN

OMA / A4 / 41240-41319 / OO / 33L7

AIR	Ministry of Communication; Directorate General of Civil Aviation; Radio Section; POB 204; MUSCAT

ALC Gulf Air Co; POB 138; MANAMA
MAR (Muscat R via GENTEL Muscat)
PTT General Telecommunication Organization; Transmission Department; Manager Transmission; POB 3789; Ruwi; MUSCAT

PAKISTAN

PAK / AP-AS 6P-6S / 41500-41849 / OP / 31C6

AIR Civil Aviation Authority; Senior Communications Officer; B-1; International Airport; KARACHI 11
ALC Pakistan International Airlines Corp; PIA Building; International Airport; KARACHI
MET Ministry of Defence; Aviation Division; Pakistan Meteorological Department; Forecasting and Climatology Division; Meteorological Complex; University Road; POB 8454; KARACHI 32
NAV (PN Karachi =) Naval Headquarters; Directorate of Signals; Natal Staff Branch; ISLAMABAD
PTT Pakistan Telegraph and Telephone; Directorate General; Chief Engineer (O/S); KARACHI
UN UNO; POB 68; RAWALPINDI

PALAU

PLW / - / 91408 / PTRO / 19M1

ALC Palau International Traders Inc; 8370 West Flagler; Suite 252; MIAMI, FL 33144; USA

PALMYRA ISLAND

PLM / see Kiribati / 91385 / PLPA / 122U7

PANAMA

PNR / HO-HP H3 H8-H9 3E-3F / 78775-78824 / MP / 115o5

AIR Direccion de Aeronautica Civil; Edificio de Diego 98, 1er Piso; Calle 40 y Avenida Balboa; Apartados 7501 y 7615; PANAMA CITY 5
ALC Air Panama International SA; Apartado 8612; PANAMA CITY 5
ALC Compania Panamena de Aviacion SA; Apartado 1572; PANAMA CITY 1
FF (USAF Albrook AFB, Balboa =) Headquarters 1978 Communications Group / DOJA; Radio Operations Branch; APO MIAMI, FL 34001-6345; USA
FF Department of the Navy; Area Master Station Atlantic Detachment; Inter-American Naval Telecommunications Network; Station NBA; Officer-in-charge; Drawer 5016; FPO MIAMI, FL 34061-1400; USA
MAR Panama Intelmar Radio; Radio Manager; Apartado 2009; BALBOA

PAPUA NEW GUINEA

PNG / P2 / 94000-94099 / AY / 15J6

AIR Department of Transport and Civil Aviation; Division of Civil Aviation; POB 457; KONEDOBU
ALC Air Niugini; POB 7186; BOROKO
MAR Post and Telecommunication Corp; Coast Radio Station Port Moresby Radio; Manager; POB 1378; BOROKO
MAR (Rabaul R via PTC Boroko)
PTT Post and Telecommunication Corp; POB 1349; BOROKO

PARAGUAY

PRG / ZP / 86000-86299 / SG / 118A8

AIR Ministerio de Defensa Nacional; Direccion General de Aeronautica Civil; Piso 2; Avenida Mariscal Lopez y Vice-Presidente Sanchez; ASUNCION
ALC Lineas Aereas Paraguayas; Oliva 455; ASUNCION
MAR (Asuncion R via ANTELCO Asuncion)
PTT Administracion Nacional de Telecomunicaciones; Casilla 2042; ASUNCION

PERU

PRU / OA-OC 4T / 84300-84799 / SP / 117G2

AIR	Corporacion Peruana de Aeropuertos y Aviacion Comercial; Apartado 680; LIMA 100
ALC	Aerochasqui SA; Avenida Nicolas de Pierola 611; Oficina 31; LIMA
ALC	Aeronaves del Peru SA; Jr. Bolognesi 125; Piso 16; Edificio Centro Ejecutivo Pardo; LIMA 18
ALC	Aero Transporte SA; Aeropuerto Internacional Jorge Chavez; LIMA-CALLAO
ALC	Aerotransportes Peruanos Internacionales Air Cargo SA; Avenida Nueva Tomas Marsano 2813; Oficina 608 Surco; LIMA 33
ALC	Faucett Peru; Apartado 1429; LIMA 100
NAV	Marina de Guerra del Peru; Direccion de Comunicaciones; Departemento de Comunicaciones Maritimas; Jefe; Avenida La Marina Cuadra 36; CALLAO 4

PHILIPPINES

PHL / DU-DZ 4D-4I / 98000-98999 / RP / 19L4

AIR	Civil Aeronautical Administration; Manila International Airport 3101; MANILA
ALC	Aboitiz Air Transport Corp; General Aviation Area; Domestic Airport; Pasay City; METRO MANILA
ALC	Philippines; POB 954; MANILA
MAR	(DZF =) Bacoor Radio; Manager; 408-F Real Street; Pulang-Lupa; Las Pinas; METRO MANILA
MAR	(Mandaluyong R DZE =) Global Communications Philippines; Manager; 283 Shaw Boulevard; Mandaluyong; METRO MANILA
MAR	Maritime Communications Inc; Manager; Atlanta Corner 13th Street; Port Area; POB 4067; MANILA
PRS	USIA; Voice of America; Philippines Relay Station; Transmitter Plant Supervisor; APO SAN FRANCISCO, CA 96277-5000; USA

PHOENIX ISLANDS

PHX / see Kiribati / 91700-91719 / PB-PC / 122K8

PITCAIRN ISLAND

PTC / see United Kingdom / 91960 / - / 122U11

POLAND

POL / HF SN-SR 3Z / 12000-12699 / EP / 62K4

AIR	Air Traffic and Airports Administration; Al. Zwrki i Wigury 1A; POB 3; PL-00906 WARSAW 19
ALC	LOT; Ul. 17 Stycznia 39; PL-00906 WARSAW
MAR	(Gdynia R via PTT Warsaw)
MAR	(Szczecin R via PTT Warsaw)
MET	(Warsaw Meteo via PTT Warsaw)
PRS	(PAP Warsaw via PTT Warsaw)
PTT	Ministerstwo Transportu, Zeglugi i Lacznosci; Departement Sluzby Telekomunikacynej; Ul. Chalubinskiego 4/6; PL-00928 WARSAW

POLYNESIA (FRENCH)

OCE / see France / 78825-78845 91920-91959 / NT / 122M10

AIR	Direction du Service d'Etat de l'Aviation Civile en Polynesie Francaise; BP 6011; Aeroport Faaa; PAPEETE
ALC	Air Tahiti; Boulevard Pomare; BP 314; PAPEETE

PORTUGAL

POR / CQ-CU XX / 08525-08599 / LP / 75

AIR	Aeroportos e Navegacao Aerea EP; Direccao Geral de Navegacao Aerea; Arruamento C, Edificio 12; Aeroporto de Lisboa; P-1700 LISBON

ALC Air Atlantis SARL; Aeroporto do Lisboa; CP 5366; P-1708 LISBON Codex
ALC Airsul SA; CP 5452; P-1709 LISBON Codex
ALC Portugalia SA; Rua Dr. Manuel de Arriega 7; 2nd Floor; Alges; P-1495 LISBON
ALC Transportes Aereos Portugueses EP; Edificio 25; Aeroporto do Lisboa; P-1704 LISBON Codex
MAR (Lisbon R via CPRM Lisbon)
MET Instituto Nacional de Meteorologia e Geofisica; Rua C - Aeroporto de Lisboa; P-1700 LISBON
NAV (PN Lisbon =) Ministerio da Marinha; Estacao Radionaval "Comandante Nunes Ribeiro"; Central Receptora de Alges; P- LINDA-A-VELHA
NAV Estacao Radionaval CTS; P-8650 VILA DO BISPO
PTT Companhia Portuguesa Radio Marconi; O Director Tecnico; 125 Avenida Duque de Loule; Apartado 2778; P-1119 LISBON Codex

PRINCE EDWARD ISLAND

PEI / see South Africa (Republic of) / - / - / 26B13

PUERTO RICO

PTR / see United States of America / 78514-78535 / TJ / 105J7

AIR San Juan Airport Radio WWA3; Aeronautical Radio Inc; Chief of Center Operations; International Airport; SAN JUAN, PR 00913-6648
MAR (Loiza R via AAC+R San Juan)
MAR (LUSAN Ponce Playa R via AAC+R San Juan)
PTT All America Cables and Radio Inc; POB S-3746; SAN JUAN, PR 00904

QATAR

QAT / A7 / 41160-41179 / OT / 33J4

AIR Civil Aviation Department; POB 3000; DOHA
MAR (Doha R via QPTC Doha)
PTT Qatar Public Telecommunication Corp; Director of Telecommunications; POB 2633; DOHA

REUNION AND DEPENDENCIES

REU / see France / 61968-61984 / FME / 26V14

AIR Service de l'Aviation Civile; F-97489 SAINT DENIS - Cedex
ALC Air Reunion; BP 611; F-97473 SAINT DENIS Cedex
MAR (Saint Denis R via DTRE Saint Denis)
MET Direction de la Meteorologie Nationale; Service Meteorologique de la Reunion; BP 4; F-97491 SAINTE-CLOTILDE Cedex
NAV (FF Saint Denis via FN Paris, France)
PTT Centre Radioelectrique de la Reunion; Le Chef de Centre; BP 318; F-97400 SAINT DENIS

RODRIGUES

ROD / see Mauritius / 61988 / FIMR / 26B12

ROMANIA

ROU / YO-YR / 15000-15499 / LR / 81G5

AIR Departementul Aviatiei Civile; Aeroportul Bucuresti/Otopeni; R- BUCHAREST
ALC Liniile Aeriene Romane; Otopeni Airport; R- BUCHAREST
ALC Transporturile Aeriene Romane; Otopeni Airport; R- BUCHAREST
MAR Constanta Radio; Directia Navigatiei Maritime; "NAVRO M"; R- CONSTANTA
MET Ministere de l'Agriculture et de la Sylviculture; Institut de Meteorologie et d'Hydrologie; Service des Transmissions; Sos. Bucuresti-Ploiesti 97; R- BUCHAREST 18
PRS Agentia Romina de Presa; Piata Sceinteii 1; R- BUCHAREST
PTT Ministere des Transports et Telecommunications; Office des Relations Internationales; Boulevardul Dinicu Goldescu 38; R-77113 BUCHAREST

RWANDA RRW / 9X / 64380-64389 / HR / 93A8

AIR	Ministere des Postes et des Communications; Direction Generale de l'Aeronautique; Le Chef des Services Techniques; BP 720; KIGALI
ALC	Air Rwanda; BP 808; KIGALI

SAINT HELENA SHN / see United Kingdom / 61901 / FH / 96B14

MAR	(Jamestown R via C+W Jamestown)
MET	(Jamestown Meteo via Bracknell Meteo, United Kingdom)
PTT	Cable and Wireless PLC; "The Briars"; POB 2: JAMESTOWN

SAINT KITTS AND NEVIS SCN / V4 / 78850-78859 / TK / 11603

AIR	Ministry of Communications and Works; POB 186; BASSETERRE

SAINT LUCIA LCA / J6 / 78945-78949 / TL / 11608

AIR	Civil Aviation Department; POB 651; Vigie Airport; CASTRIES

SAINT-PIERRE AND MIQUELON SPM / see France / 71804 / LFV / 98P7

AIR	Service de l'Aviation Civile; Boulevard de Port-en-Bessin; BP 4265; F-97500 SAINT-PIERRE
ALC	Air Saint-Pierre SA; 18 Rue Albert Briand; BP 4225; F-97500 SAINT-PIERRE
MAR	(Saint-Pierre R via DTRE Saint-Pierre)
PTT	Centre des Telecommunications; BP 4241; F-97500 SAINT-PIERRE

SAINT VINCENT AND THE GRENADINES VCT / J8 / 78950-78953 / TV / 11608

SAMOA (AMERICAN) SMA / see United States of America / 91765 / NST / 122D1

MAR	Government of American Samoa; Direction of Communications; Coastal Station Pago Pago Radio KUQ; PAGO PAGO 96799

SAMOA (WESTERN) SMO / 5W / 91759-91762 / NSA-NSM / 122A2

AIR	Prime Minister's Department; Western Samoa Airport Authority; Chief Air Traffic Controller; Private Bag; Faleolo International Airport; APIA
ALC	Polynesian Airlines Ltd; Air Centre; Beach Road; POB 599; APIA
MAR	(Apia R via GPO Apia)
PTT	Posts and Telecommunications Department; General Post Office; APIA

SAN MARINO SMR / T7 / - / - / 78M7

SAO TOME AND PRINCIPE STP / S9 / 61931-61934 / FP / 91A12

AIR	Direccao da Aviacao Civil; CP 97; SAO TOME
ALC	Equatorial; CP 45; SAO TOME
ALC	Transafrik Corp Ltd; c/o IAS; IAS House; Shannon Business Park; SHANNON; Ireland
MAR	(Sao Tome R via ENATEL Sao Tome)

PTT	Empresa Nacional de Telecomunicacoes; CP 141; SAO TOME

SAUDI ARABIA

ARS / HZ 7Z 8Z / 40350-40549 41000-41149 / OE / 33

AIR	Air Traffic Services Directorate; POB 929; JEDDAH 21421
ALC	Saudi Arabian Airlines; POB 620; JEDDAH 21231
MAR	(ARAMCO Ras Tanura R =) Arabian American Oil Company; Supervisor Radio and Marine Operations; Communications Department; Building 840; POB 96; DHAHRAN
MAR	GENTEC; Haji Abdullah Alireza & Co Ltd; General Technical Division; Coast Radio Station; Station Manager; POB 8; DAMMAM 31411
MAR	Jeddah Radio; Station Manager; POB 1531; JEDDAH 21411
MET	Ministry of Defense and Aviation; Meteorological and Environmental Protection Administration; Director of Telecommunications; POB 1358; JEDDAH 21431

SENEGAL

SEN / 6V-6W / 61600-61699 / GO / 89B4

AIR	Representation de l'ASECNA; BP 8131; DAKAR-YOFF
FF	Le Chef des Stations Interarmees des Transmissions de Yeumbeul et Rufisque; BP 3024; DAKAR
MAR	Office des Postes et Telecommunications du Senegal; Exploitation des Postes et Telecommunications du Senegal; Station Radiomaritime Dakar-Radio; BP 5; THIAROYE par Dakar
MET	Ministere de l'Equipement; Direction de la Meteorologie Nationale; Section des Transmissions; BP 8257; DAKAR-YOFF
PRS	Agence Panafricaine d'Information; Service Technique; BP 4056; DAKAR

SEYCHELLES

SEY / S7 / 63980-63999 / FS / 26R11

AIR	President's Office; Department of Finance; Directorate of Civil Aviation; International Airport; POB 181; VICTORIA, Mahe
ALC	Air Seychelles; POB 386; VICTORIA, Mahe
MAR	(Victoria R via C+W Victoria)
PTT	Cable and Wireless PLC; Francis Rachel Street; POB 4; VICTORIA, Mahe

SIERRA LEONE

SRL / 9L / 61850-61899 / GF / 89C7

AIR	Ministry of Transport and Communications; The Director of Civil Aviation; Ministerial Office Block; George Street; FREETOWN
MAR	(Freetown R via SLECOM Freetown)
PTT	Sierra Leone External Telecommunications Ltd; POB 80; FREETOWN

SINGAPORE

SNG / S6 9V / 48680-48799 / WS / 18J3

AIR	Civil Aviation Authority of Singapore; Director General of Civil Aviation; Frequency Management Engineer; POB 1; Changi International Airport; SINGAPORE 9181
ALC	Singapore Airlines Ltd; Airmail Transit Centre; POB 501; SINGAPORE 9181
ALC	Tradewinds Ltd; 77 Robinson Road; 01-06 SIA Building, SINGAPORE 0106
MAR	(Singapore R via TAS Singapore)
PRS	(ANSA Singapore via TAS Singapore)
PRS	(JIJI Singapore via JIJI Tokyo, Japan)
PRS	(KYODO Singapore via KYODO Tokyo, Japan)
PTT	Telecommunications Authority of Singapore; Regulations & Licensing Department; Frequency Management; Comcentre 2nd floor; 31 Exeter Road; SINGAPORE 0923

SOLOMON ISLANDS

SLM / H4 / 91500-91529 / AG / 15K2

AIR	Ministry of Posts and Communications; Civil Aviation Division; Honiara/Henderson Airport Manager; GPO; HONIARA
ALC	Solomon Islands Airlines; POB 23; HONIARA
MAR	(Honiara R via SOLTEL Honiara)
PTT	Solomon Telekom Co Ltd; Telekom House; Mendana Avenue; HONIARA

SOMALIA

SOM / T5 6O / 63150-63299 / HC / 87J9

AIR	Department of Civil Aviation; POB 310; MUQDISHO
ALC	Somali Airlines SPA; Via Medina; POB 726; MUQDISHO

SOUTH AFRICA (REPUBLIC OF)

AFS / ZR-ZU / 68000-68938 / FA / 94F6

AIR	Forecast Office; Department van Vervoer; Department of Transport; Weerkantoor; JAN SMUTS AIRPORT 1627
ALC	Safair Freighters; POB 938; KEMPTON PARK 1620
ALC	South African Airways; Springbok Airadio; Flight Operations Control; Assistant Deputy Manager; New Flight Building; Room 500; JAN SMUTS AIRPORT 1627
MAR	Cape Town Radio ZSC; Chiefsuperintendent; Private Bag; MILNERTON 7435
MAR	Durban Radio; POB X291; PINETOWN 3600
MET	Department of Environment Affairs; Chief Director; The Weather Bureau; 159 Struben Street; Private Bag X097; PRETORIA 0001
NAV	Cape Naval Radio ZRH; Private Bag; WYNBERG 7824
PTT	(PTT Cape Town via Cape Town R)

SPAIN

E / AM-AO EA-EH / 08000-08494 60320 60338 / GE LE / 73

AIR	Direccion General de Aviacion Civil; Jefe de Telecomunicaciones; Avenida de America 25-8a. planta; E-28002 MADRID
ALC	Air Europa; Gran Via Asima 23; Poligono Son Castello; E-07009 PALMA DE MALLORCA
ALC	Air Sur; Avenida de Brasilia 9; Planta Baja; E-28028 MADRID
ALC	Aviaco; Maudes 51; Edificio Minister; E-28003 MADRID
ALC	Cargosur; Avenida de la Hispanidad 13; E-28042 MADRID
ALC	Futura International Airways; Calle Jesus 4; E-07003 PALMA DE MALLORCA
ALC	Iberia; 130 Calle Velazquez; E-28006 MADRID
ALC	LTE International Airways SA; Gran Via Asima 4; Poligono Son Castello; E-07009 PALMA DE MALLORCA
ALC	Nortjet; Independencia 1-4; E-01005 VITORIA
ALC	Oasis International Airlines SA; Calle Princesa 2; 3a Planta; E-28008 Madrid
ALC	Spanair; Apartado 50086; Aeropuerto; E-07000 PALMA DE MALLORCA
ALC	Universair SA; Gran Via Asima 4; 2 Planta; Poligono Son Castello; E-07009 PALMA DE MALLORCA
FF	US Naval Communications Station AOK; Naval Oceanography Command Centre; Operations Officer; Box 31; FPO NEW YORK, NY 09540-3200; USA
MAR	Telefonica; Servicio Maritimo; Avenida de las Cortes Catalanes 786; E-08013 BARCELONA
MAR	(Chipiona R via PTT Madrid)
MAR	(Finisterre R via PTT Madrid)
MAR	Estacion Costera Radiotelefonica; Calle Maria Cristina (Chalet); E- GIJON
MAR	(Machichaco R via PTT Madrid)
MAR	(Madrid R via PTT Madrid)
MAR	Estacion Costera Radiotelefonica; Can Pastilla; E- PALMA DE MALLORCA
MAR	(Tarifa R via PTT Madrid)

MAR	Telefonica; Servicio Maritimo; Estacion Costera Radiotelefonica; Jefe de la Estacion; E-VIGO
MET	Ministerio de Transportes, Turismo y Comunicaciones; Instituto Nacional de Meteorologia; Seccion de Comunicaciones y Graficos; Head of Meteorological Communications Office; E-280.. MADRID
NAV	Instituto y Observatorio de Marina; Jefe de la Seccion de Hora; E- SAN FERNANDO (Cadiz)
NAV	Estacion Radiotelegrafica e.n.a.; Arturo Soria 289; E-28016 MADRID
PTT	Telefonica; Departemento de Servicios Moviles; Servicio Maritimo; Gran Via 28; Apartado 753; E-28013 MADRID

SRI LANKA SLK / 4P-4S / 43400-43499 / VC / 26R6

AIR	Colombo Airport (Ratmalana); Department of Civil Aviation; Office of the Chief Signals Officer; Chief Officer; Mt. Lavinia; COLOMBO
ALC	Air Lanka; 37 Grindlays Bank Building; York Street; COLOMBO 1
ALC	Helitours; Air Headquarters; POB 594; COLOMBO 2
MAR	Colombo Radio; 26 Old Waidya Road; DEHIWELA

SUDAN SDN / SSN-ST 6T-6U / 62600-62999 / HS / 84G4

AIR	Ministry of Defense; Civil Aviation Department; Office of the Director of Telecommunications; POB 430; KHARTOUM
ALC	Nile Safaris Aviation Ltd; POB 2711; KHARTOUM
ALC	Sudan Airways; POB 253; KHARTOUM
ALC	Trans Arabian Air Transport; POB 1461; KHARTOUM
PRS	Sudan News Agency; Technical Department; Gumhoria Street; POB 1506; KHARTOUM

SURINAM SUR / PZ / 81200-81399 / SM / 117A2

AIR	Ministry of Transport, Trade and Industry; Department of Civil Aviation; Air Traffic Service; Chief; POB 1981; Zorg en Hoop; PARAMARIBO SOUTH
ALC	Surinam Airways; POB 2029; PARAMARIBO
MAR	TELESUR; Telecomunicatiebedrijf Suriname; Chief Coast Station; Gravenstraat 13; POB 1839; PARAMARIBO

SWAN ISLANDS SWN / see Honduras / 78501 / MHIC / 116C6

SWAZILAND SWZ / 3DA-3DM / 68396 / FD / 94L6

AIR	Ministry of Works, Power and Communications; Civil Aviation Branch; POB 58; MBABANE
ALC	African International Airways Pty Ltd; POB 939; MANZINI
ALC	Air Swazi Cargo Pty Ltd; POB 2869; MBABANE
ALC	Royal Swazi National Airways Corp; POB 939; MANZINI

SWEDEN S / SA-SM 7S 8S / 02000-02699 / ES / 49H5

AIR	Telekomisarien Luftfartsverket; S-190 45 STOCKHOLM-ARLANDA
ALC	Baltic Airlines Sweden AB; c/o Mercurius Gruppen; Hovslagargatan 5; S-111 48 STOCKHOLM
ALC	Falcon Cargo AB; Box 36; S-230 32 MALMÖ
ALC	Linjeflyg AB; POB 550; S-190 45 STOCKHOLM-ARLANDA
ALC	Scanair; Fack 20083; S-161 20 BROMMA

ALC	Scandinavian Airlines System; Ulvsundavegen 193; S-161 87 BROMMA
ALC	Transwede; POB 530; S-190 45 STOCKHOLM-ARLANDA
MAR	Televerkets Kuststation; Goteborg Radio; S-439 00 ONSALA
MAR	Härnösand Radio; Salsten 10; S-871 00 HÄRNÖSAND
MAR	Karlskrona Radio SAA; Box 8051; S-371 08 LYCKEBY
MAR	Televerkets Kuststation; Stockholm Radio; Box 43022; S-100 72 STOCKHOLM
MFA	Utrikesdepartementet; Radioavdelningen; Box 16121; S-103 23 STOCKHOLM
PTT	Swedish Telecom Radiostationen; Chief Engineer; Box 43022; S-100 72 STOCKHOLM

SWITZERLAND

SUI / HB HE / 06600-06794 / LS / 66

AIR	Zürich Airadio; c/o SWISSCONTROL; Betriebsabteilung Flugsicherung; Postfach; CH-3000 BERNE 14
ALC	Air City SA; BP 123; CH-1215 GENEVA 15
ALC	Balair AG, Postfach; CH-4002 BASEL
ALC	Compagnie de Transport Aerien; BP 110; CH-1215 GENEVA-AEROPORT
ALC	Crossair; Postfach; CH-4002 BASEL
ALC	SWISSAIR; Flight Communications; OFLF; Einsatzleitstelle Zürich; CH-8058 ZÜRICH-KLOTEN
ALC	Trans European Airways AG; Postfach 238; CH-4030 BASEL-FLUGHAFEN
ALC	Zimex Aviation Ltd; Postfach 162; CH-8702 ZOLLIKON
MAR	Radio-Suisse SA; Bern-Radio HEB; Betriebszentrale Bern; Genfergasse; CH-3011 BERNE
TSF	(Nyon TS =) Observatoire Cantonal; CH- NEUCHATEL
UN	Office of the United Nations at Geneva; Telecommunications Service; Palais des Nations; CH-1211 GENEVA 10

SYRIA

SYR / YK 6C / 40000-40099 / OS / 34E3

AIR	Ministry of Transport; Directorate General of Civil Aviation; Director of Air Traffic Services; 1 Sahet Al-Nejmeh; POB 6257; DAMASCUS
ALC	Syrianair; POB 417; DAMASCUS
MAR	(Lattakia R via STE Damascus)
MAR	(Tartous R via STE Damascus)
PTT	Syrian Telecommunications Establishment; Directorate of Telecommunications Operation; Department of International Relations; Saadallah Jabiri Street; DAMASCUS

TAIWAN

TAI / see China / see China / RC / 23J7

ALC	China Airlines Ltd; 131 Nanking East Road; 3rd Section; TAIPEI 104
ALC	EVA Airways Corp; Evergreen Building; 7th Floor; 330 Minsheng East Road; TAIPEI 10444
ALC	Far Eastern Air Transport Corp; FAT Building; 5 Alley 123; Lane 405; Tun Hwa North Road; TAIPEI 10592
ALC	Great China Airlines; 12th Floor; 171 Nanking East Road; Section 4; TAIPEI
ALC	Makung Airlines Co Ltd; 305 Ho-Tung Road; KAOHSIUNG
ALC	Taiwan Airlines; 306 Jen Ai Road; 2nd Floor; TAIPEI
MAR	Kaohsiung Radio Station XSW; 142 Jiin Tien Road; KAOHSIUNG
MAR	Keelung Maritime Coast Radio Station XSX; 53 Ai 4th Road; KEELUNG
MET	Central Weather Bureau; Chief Staff of Telecommunications; 64 Kung Yuan Road; TAIPEI 100
PRS	Central News Agency Inc; Communications Department Chief; 209 Sungchiang Road; TAIPEI
TSF	Telecommunications Laboratories; Ministry of Communications; POB 71; CHUNG LI 320

TANZANIA TZA / 5H-5I / 63729-63971 / HT / 91E4

AIR Ministry of Communications and Works; Directorate of Civil Aviation; Senior Communications Officer; POB 2819; DAR ES SALAAM
ALC Air Tanzania Corp; POB 543; DAR ES SALAAM
MAR (Zanzibar R via PTT Dar es Salaam)
PTT Tanzania Posts and Telecommunications Corp; POB 9070; DAR-ES- SALAAM

THAILAND THA / HS / 48300-48599 / VT / 25E5

AIR Aeronautical Radio of Thailand Ltd; Aeronautical Telecommunication System Engineering Department; Manager; 102 Gnamduplee; Tungmahamek; GPOB 535; BANGKOK
ALC Thai Airways International; 89 Vibhavadi Rangsit Super Highway; GPOB 1075; 10900 BANGKOK
MAR (Bangkok R via CAT Bangkok)
MET Ministry of Communications; Meteorological Department; Telecommunications Division; Chief Collection and Dissemination Section; Radiofacsimile Broadcasts Manager; 612 Sukumvit Road; 10110 BANGKOK
PTT Communications Authority of Thailand; Director of Telecommunication Services Division; New Road; 10002 BANGKOK

TOGO TGO / 5V / 65350-65399 / DX / 89K8

AIR Representation de l'ASECNA; BP 123; LOME
MAR (Lome R via PTT Lome)
PTT Ministere de l'Equipement et des Postes et Telecommunications; LOME

TOKELAU ISLANDS TKL / see New Zealand / 91720-91749 / - / 10S3

TONGA TON / A3 / 91770-91799 / NFT / 9U14

AIR Ministry of Civil Aviation; Queen Salote Road; POB 845; NUKU'ALOFA
ALC Friendly Islands Airways Ltd; Private Bag; NUKU'ALOFA
MAR (Nuku'alofa R via TTC Nuku'alofa)
PTT Tonga Telecommunication Commission; POB 46; NUKU'ALOFA

TRINIDAD AND TOBAGO TRD / 9Y-9Z / 78960-78974 / TT / 11609

AIR Ministry of Public Utilities and National Transportation; Civil Aviation Division; POB 552; PORT OF SPAIN
ALC BWIA International; Administration Building; Piarco International Airport; PORT OF SPAIN
MAR (North Post R via TEXTEL Port of Spain)
PTT Trinidad and Tobago External Telecommunications Company Ltd; Manager Operations; POB 3; PORT OF SPAIN

TRISTAN DA CUNHA TRC / see United Kingdom / 68902-68906 / - / 96B16

TUNISIA TUN / TS 3V / 60700-60799 / DT / 88S4

AIR Centre de la Navigation Aerienne; 2035 TUNIS-CARTHAGE
ALC Liberte Tunisie; 4 Rue Imam Rassa; TUNIS
ALC Tunis Air; 113 Avenue de la Liberte; TUNIS

MAR (Tunis R via PTT Tunis)
PRS Agence Tunis Afrique Presse; Chef de la Division Technique; 25 Avenue Habib Bourgiba; 1001 TUNIS
PTT Ministere des Communications; Division des Transmissions; Subdivision Radio et Frequences; L'Ingenieur General; 3 bis Rue de l'Angleterre; TUNIS

TURKEY TUR / TA-TC YM / 17000-17399 / LT / 27B2

AIR Ministry of Communications; Civil Aviation Department; TR- ANKARA
AIR Meydah Meteoroloji; Istasyounou Müdürlügü; Havalaani; TR- ISTANBUL
ALC Birgenair; Cumhuriyet Caddesi 111; Bingul Han Kat 4; Elmadag; TR-80230 ISTANBUL
ALC Greenair; Cumhuriyet Caddesi 279; Adli Han Kat 4; Harbuje; TR- ISTANBUL
ALC Istanbul Airlines; Incirli Caddesi 50; K. 4; Bakirköy; TR-34740 ISTANBUL
ALC Noble Air; Vali Konagi Caddesi 26/7; Nisantasi; TR-80200 ISTANBUL
ALC Pegasus Airlines; Istasyoun Caddesi 24; Yesilyurt; TR- 34804 ISTANBUL
ALC Sultan Air; Abdi Ipekci Caddesi Altim Sok 2/12; Nisantasi; TR-802.. ISTANBUL
ALC Sunexpress; Steigenberger Falez Hotel; POB 28; TR-07100 ANTALYA
ALC Torosair; Inönü Caddesi; Gümüssuyu Vakif Ishani 2; Taksim; TR-80090 ISTANBUL
ALC Tur European Airways AS; Rihtim C Nesli Han 207; Karakoy; TR- ISTANBUL
ALC Türk Hava Yollari; Atatürk Airport; Yesilköy; TR- ISTANBUL
FF (USAF Adana =) 2006 CS/DOJA; APO NEW YORK, NY 09289; USA
MAR (Istanbul R via TGM Istanbul)
MET Turkish State Meteorological Service; Devlet Meteoroloji Isleri; Genel Müdürlügü; Deputy Director General; POB 401; TR- ANKARA
PRS Anadolou Ajansi; Genel Müdürlük; POB 450; TR- ANKARA
PTT TGM Istanbul; Bölge BasMüdürlügü; Teknik Isler; TR- ISTANBUL

TURKS AND CAICOS ISLANDS TCA / see United Kingdom / 78118 / MKGT MKJT MKM-MKN MKPI MKPV MKSC MKSY / 116H4

AIR Director of Civil Aviation; POB 168; GRAND TURK

TUVALU TUV / T2 / 91630-91649 / NGF / 9C8

AIR Ministry of Works and Communication; Vaiaku; FUNAFUTI
MAR (Funafuti Island R via PTT Funafuti)
PTT Posts and Telecommunications Division; Vaiaku; FUNAFUTI

UGANDA UGA / 5X / 63602-63726 / HU / 93C4

AIR Ministry of Transport; Directorate of Civil Aviation; POB 5536; KAMPALA
ALC Dairo Air Services Cargo; ANA House; Aviation Court; Gatwick Road; CRAWLEY RH10 2RJ; United Kingdom
ALC Uganda Air Cargo; POB 343; ENTEBBE
ALC Uganda Airlines Corp; POB 5740; KAMPALA

UKRAINIA UKR / UR-UT / see Union of Soviet Socialist Republics / see Union of Soviet Socialist Republics / 46E5

UNION OF SOVIET SOCIALIST REPUBLICS URS / EK EM-EO ER-ES EX-EZ LY R UA UQ UU-UZ YL 4J-4L / 20000-39999 / U / 38

AIR Ministry of Civil Aviation; 37 Leningradski Prospekt; SU- MOSCOW A-167
ALC Aeroflot; Leningradsky Prospekt 37; SU-125167 MOSCOW

MAR Klaipeda Radio; POB 673; SU-235815 KLAIPEDA
PRS (ANGOP Moscow via ANGOP Luanda, Angola)
PRS (PL Moscow via PL Habana, Cuba)
PRS Telegrafnoje Agentstwo Sowjetskojo Sojusa; Main Communications Department; Twerscoij Boulevard 10; SU-103009 MOSCOW
PTT Ministry of Posts and Telecommunications; International Telecommunications Service; Public Relations Department; 7 Gorki Street; SU-103375 MOSCOW
TSF Council of Ministers of the USSR; State Committee of Standards; Chief Foreign Relations Department; 9 Leninsky Prospekt; SU-117049 MOSCOW
• Arctic and Antarctic Research Institute; Fontanka 34; SU-191104 LENINGRAD

UNITED ARAB EMIRATES

UAE / A6 / 41180-41239 / OM / 33K5

AIR Ministry of Communications; Directorate General of Civil Aviation; POB 900; ABU DHABI
ALC Emirates; POB 686; DUBAI

UNITED KINGDOM

G / G M VP-VS ZB-ZJ ZN-ZO ZQ 2 / 03000-03949 / EG / 54

AF RAF Upavon; HQ 1 Group; Commanding Officer; PEWSEY SN9 6BE
AIR Civil Aviation Authority Headquarters; CAA House; 45-59 Kingsway; LONDON WC2B 6TE
AIR (Plymouth Rescue =) Southern Rescue Coordination Centre; Mount Wise; Richmond Walk; PLYMOUTH PL1 4JH
AIR (Shanwick Air =) National Air Traffic Services; Scottish & Oceanic ATC Control Centres; Duty Signals Officer; Atlantic House; Sherwood Road; PRESTWICK KA9 2NR
ALC Air Bridge; East Midlands Airport; CASTLE DONINGTON DE7 2SL
ALC Air Europe Ltd; Europe House; Manor Royal; Station Road; CRAWLEY RH10 2QD
ALC Air 2000 Ltd; Oakdale; Broadfield Park; Brighton Road; CRAWLEY RH11 9RT
ALC Air UK Leisure Ltd; Airways House; First Avenue; Stansted Airport; STANSTED CM24 8RY
ALC Air UK Ltd; Room 103; Building 130; Stansted Airport; STANSTED CM24 8QW
ALC Amber Airways Ltd; Aviation Centre; Cargo Terminal; Airport; BIRMINGHAM B26 3QW
ALC Anglo Cargo; Unit 15; Royce Road; Fleming Way; CRAWLEY RH10 2NX
ALC Berlin European UK Ltd; Flughafen Tegel; D-100 51 BERLIN; Germany
ALC Birmingham European Airways PLC; Jetstream House; International Airport; BIRMINGHAM B26 3QB
ALC Britannia Airways Ltd; Luton International Airport; LUTON LU2 9ND
ALC British Air Ferries Ltd; Viscount House; SOUTHEND AIRPORT SS2 6YL
ALC British Airways PLC; Head Office; SPEEDBIRD London; P311 Technical Block A; POB 10; Heathrow Airport; HOUNSLOW TW6 2JA
ALC British Midland Ltd; Donington Hall; CASTLE DONINGTON DE7 2SB
ALC Caledonian Airways; Caledonian House; Gatwick Airport; CRAWLEY RH6 0LF
ALC Capital Airlines Ltd; Noathair House; Leeds/Bradford Airport; Yeaton; LEEDS LS19 7YG
ALC Channel Express Ltd; Bournemouth Hurn Airport; CHRISTCHURCH BH23 6DL
ALC Dan-Air London; New City Court; 20 St. Thomas Street; LONDON SE1 9RJ
ALC GB Airways Ltd; Stewart Centre; Beehive Ring Road South; GATWICK AIRPORT RH6 0PB
ALC Heavylift Cargo Airlines; Stansted Airport; STANSTED CM24 8QP
ALC Inter European Airways Ltd; Cardiff-Wales Airport; CARDIFF CF6 9BD
ALC Loganair Ltd; St. Andrews Drive; Glasgow Abbotsinch Airport; PAISLEY PA3 2TG
ALC Manx Airlines Ltd; Ronaldsway Airport; BALLASALLA, Isle of Man
ALC Monarch Airlines Ltd; Luton Airport; LUTON LU2 9NU
ALC Novair International Airways Ltd; Maintenance Base West; GATWICK AIRPORT RH6 0SD
ALC Princess Air PLC; Palace Hotel; Pier Hill; SOUTHEND-ON-SEA SS1 2AJ
ALC Ryanair Europe; Hangar 62; Percival Way; International Airport; LUTON LU2 9NT

ALC	Scottish European Airways Ltd; Administrative Block B; St. Andrews Drive; Glasgow Airport; PAISLEY PA3 2ST
ALC	Trans European Airways UK Ltd; Old Terminal Building; International Airport; BIRMINGHAM B26 3QN
ALC	Tradewind Airways Ltd; Stansted Airport; Building 73; STANSTED CM24 8QW
ALC	Virgin Atlantic Airways; Ashdown House; 2nd Floor; High Street; CRAWLEY RH10 1DQ
EMB	(USE London via MFA Washington, USA)
FF	(USAF AWS Croughton via USAF AWS Scott AFB, USA)
FF	US NAVCOMMSTA UK; Lybster Hill; Forss; THURSO KW14 7XZ
MAR	(Cullercoats R =) BT Radio Station; WHITLEY BAY NE26 2PD
MAR	(Gallan Head R via Stonehaven R)
MAR	(Humber R =) BT Radio Station; Trusthorpe; MABLETHORPE LN12 2PH
MAR	Department of Electronics; State's Airport; Officer-in-charge; ST. PETER, Jersey, Channel Islands
MAR	(Land's End R =) BT Radio Station; Officer in Charge; Skewjack, St. Levan; PENZANCE TR19 6NB
MAR	(Niton R =) BT Radio Station; Officer-in-charge; Dean, Whitwell Road; VENTNOR PO38 2AB
MAR	(North Foreland R =) BTI Radio Station; Station Manager; 96 Rumfield Road; BROADSTAIRS CT10 2PQ
MAR	(Norwick R via Portishead R)
MAR	(Oban R =) BT Radio Station; CONNELL PA37 1QX
MAR	British Telecom International; Portishead Radio Station; Radio Officer; HIGHBRIDGE TA9 3JY
MAR	BT Radio Station; Portpatrick; STRANRAER DG9 8TG
MAR	BT Radio Station; Station Manager; Dunnottar Mains Farm; STONEHAVEN AB3 2TL
MAR	BT Radio Station; Radio Officer; Post Office; Radio Station House; Newton Road; WICK KW1 5LT
MET	Ministry of Defense; Air Force Department; Bracknell Meteorological Office; Met. O5b; London Road; BRACKNELL RG12 2SZ
NAV	Royal Navy; Operations Office; Communications Centre Whitehall; Chief Radio Supervisor; Old Admiralty Buildings; Spring Gardens; Whitehall; LONDON SW1A 2BE
PTT	British Telecom International; Holborn Centre; 120 Holborn; LONDON EC1N 2TE
PTT	Cable and Wireless PLC; Public Relations Office; Group General Manager; Mercury House; 100/124 Theobalds Road; LONDON WC1X 8RX
TSF	Royal Greenwich Observatory; Time Department; Herstmonceux Castle; HAILSHAM BN27 1RP

UNITED NATIONS ORGANIZATION

- / 4U / - / - / -

UNITED STATES OF AMERICA

USA / AA/AL K N W / 72000-72999 74000-74999 / K / 102

AF	(USAF AWS Offutt AFB, Omaha, NE =) Air Weather Service; Headquarters; Public Affairs Office; SCOTT AFB, IL 62225
AF	United States Air Force Global Aeronautical Station; McDill Air Force Base; Communications Station AFE34; 1928th Communication Group / AFCC; Commanding Officer; TAMPA, FL 33608-6345
AIR	Aeronautical Radio Inc; Area Manager; 5391 N.W. 36th Street; MIAMI SPRINGS, FL 33166
AIR	New York International Flight Service Station; Facility Chief; 150 Arrival Avenue; Long Island McArthur Airport; RONKONKOMA, NY 11779
AIR	Department of Transportation; Federal Aviation Administration; Flight Service Station; Airport Station; POB 2368; OAKLAND, CA 94614
AIR	Federal Aviation Administration; 800 Independence Avenue Southwest; WASHINGTON, DC 20590
ALC	Air Berlin USA; Flughafen Tegel; D-100 51 BERLIN; Germany
ALC	Airborne Express; 145 Hunter Drive; WILMINGTON, OH 45177

ALC Airlift International Inc; POB 522495; MIAMI, FL 33152
ALC Air Transport International Inc; Clark Building; 3800 Rodney Parkway; LITTLE ROCK, AR 72212
ALC Air Wisconsin Inc; General Offices; Outagamie County Airport; APPLETON, WI 54915-9120
ALC American Airlines Inc; POB 619616; Dallas - Fort Worth International Airport; DALLAS, TX 75261-9616
ALC American Trans Air Inc; POB 51609; INDIANAPOLIS, IN 46251
ALC America West Airlines Inc; 4000 East Sky Harbor Boulevard; PHOENIX, AZ 85034
ALC Amerijet International Inc; 498 SW 34th Street; FORT LAUDERDALE, FL 33315
ALC Arrow Air; POB 26062; MIAMI, FL 33102-6062
ALC Aspen Airways Inc; 3980 Quebec Street; Suite 217; DENVER, CO 80207
ALC Buffalo Airways Inc; Building 700; South University Park Drive; WACO, TX 76706
ALC Burlington Air Express; 9100 Airport Drive; Pyramid Plaza; Suite B; JOHN WAYNE, IN 46809
ALC Carnival Air Lines Inc; 1815 Griffin Road; Suite 205; DANIA, FL 33004-2213
ALC Casino Express; POB 1174; EL CAJON, CA 92022
ALC Challenge Air Cargo Inc; POB 523979; MIAMI, FL 33152
ALC Classic Air Inc; 5030 Paradise Road; Suite 113C; LAS VEGAS, NV 89119
ALC Conner Air Lines Inc; POB 660122; MIAMI SPRINGS, FL 33166
ALC Connie Kalitta Services Inc; 842 Willow Run Airport; YPSILANTI, MI 48197
ALC Continental Airlines; 2929 Allen Parkway; HOUSTON, TX 77210
ALC Delta Air Lines Inc; Hartsfield International Airport; ATLANTA, GA 30320
ALC Eastern Air Lines Inc; International Airport; MIAMI, FL 33148
ALC Emerald Air; 3144 Bee Caves Road; AUSTIN, TX 78746-5560
ALC Emery Worldwide Airlines Inc; 3350 West Bayshore; PALO ALTO, CA 94303
ALC Erickson Air Crane Co; POB 3247; CENTRAL POINT, OR 97502
ALC Evergreen International Airlines Inc; 3850 Three Mile Lane; MCMINNVILLE, OR 97128-9496
ALC Express One International Inc; 3890 W Northwest Highway; Suite 700; DALLAS, TX 75220
ALC Federal Express Corp; POB 727; MEMPHIS, TN 38194-2424
ALC Five Star Air; 330 First Avenue; NEEDHAM HEIGHTS, MA 02194
ALC Florida West Airlines Inc; POB 523970; MIAMI, FL 33152
ALC Great American Airways Inc; POB 10165; RENO, NV 89510
ALC Hawkins & Powers Aviation Inc; POB 391; GREYBULL, WY 82426
ALC Hemet Valley Flying Service Co Inc; POB 1678; HEMET, CA 92343
ALC Independent Air Inc; POB 82916; HAPEVILLE, GA 30354
ALC Key Airlines Inc; 13873 Park Center Road; Suite 490; HERNDON, VA 22071
ALC Midway Airlines Inc; Midway Airport; CHICAGO, IL 60638
ALC Midwest Express Airlines Inc; 4915 South Howell Avenue; MILWAUKEE, WI 53207
ALC Millon Air Inc; POB 524057; MIAMI, FL 33152
ALC Nomads Inc; Nomads World Terminal; Metro Airport; DETROIT, MI 48242
ALC North American Airlines Inc; Building 75; Suite 250; JFK International Airport; JAMAICA, NY 11430
ALC Northwest Airlines Inc; International Airport; SAINT PAUL, MN 55111
ALC Pan Am; Pan Am Building; 200 Park Avenue; NEW YORK, NY 10166
ALC Pan Aviation Inc; POB 522816; MIAMI, FL 33152
ALC Private Jet Expeditions Inc; 8100 East 22nd Street North; Building 500; WICHITA, KS 67226
ALC Race Aviation; 3000 North Flyborne; BURBANK, CA 91505
ALC Rich International Airways Inc; POB 522067; MIAMI, FL 33152
ALC Southern Air Transport Inc; POB 524093; MIAMI, FL 33152
ALC Southwest Airlines Co; Love Field; POB 37611; DALLAS, TX 75235-1625
ALC Sun Country Airlines; 7701 26th Avenue South; MINNEAPOLIS, MN 55450
ALC T and G Aviation Inc; 22000 South Price Road; CHANDLER, AZ 85248
ALC TBM Inc; POB 868; TULARE, CA 93274
ALC Tower Air Inc; Hangar 8; JFK International Airport; JAMAICA, NY 11430
ALC TPI International Airways Inc; 550 Connole Street; BRUNSWICK, GA 31520
ALC Trans Air Link Corp; POB 521298; MIAMI, FL 33152
ALC Trans Continental Airlines Inc; 839 Willow Run Airport ; YPSILANTI, MI 48198

ALC	Trans World Airlines; 100 South Bedford Road; MOUNT KISCO, NY 10549
ALC	Trump Shuttle Inc; La Guardia Airport; Marine Air Terminal; Building 7 South; FLUSHING, NY 11371
ALC	United Airlines Inc; POB 66100; CHICAGO, IL 60666
ALC	United Parcel Service Co; Air Operations Department; POB 32760; LOUISVILLE, KY 40332
ALC	USAir Inc; 2345 Crystal Drive; ARLINGTON, VA 22227
ALC	Westair Commuter Airlines Inc; 5570 Air Terminal Drive; FRESNO, CA 93727
ALC	World Airways Inc; 13873 Park Center Road; Suite 490; HERNDON, VA 22071
ALC	Wrangler Aviation Inc; POB 35329; GREENSBORO, NC 27425
ALC	Zantop International Airlines Inc; 840 Willow Run Airport; YPSILANTI, MI 48198-0840
CG	Department of Transportation; US Coast Guard Station Boston (NMF); Radioman-in-charge; 1240 South River Street; POB 608; MARSHFIELD, MA 02050-0005
CG	US Coast Guard Radio Station NMN; Pungo Station; Commanding Officer; VIRGINIA BEACH, VA 23456
CG	United States Coast Guard Radio Station NMA; Watch Supervisor; 16001 SW 117th Avenue; MIAMI, FL 33177
CG	United States Coast Guard Communication Area; Master Station Pacific San Francisco; Commanding Officer; 17000 Sir Francis Drake Boulevard; POB 560; POINT REYES STATION, CA 94956-0560
MAR	Chatham Radio WCC; Manager; POB 397; NORTH CHATHAM, MA 02650
MAR	(Dixon R =) American Telephone and Telegraph Company; Long Lines Department; KMI Receiving Station; POB 8; INVERNESS, CA 94937
MAR	Galveston Radio KLC; Assistant Manager; POB 115; ARCADIA, TX 77517
MAR	Marine Radiotelephone Station WMI; 2307 Leavitt Road; LORAIN, OH 44052
MAR	Mobile Marine Radio Inc; 7700 Rinla Avenue; MOBILE, AL 36619-1199
MAR	(Ocean Gate R =) American Telephone and Telegraph Company; Station WOO; Beach Avenue; POB 550; MANAHAWKIN, NJ 08050
MAR	(Pennsuco R =) American Telephone and Telegraph Company; Station WOM; 1350 N.W. 40th Avenue; FORT LAUDERDALE, FL 33313
MAR	Port Arthur Radio WPA; POB 1328; PORT ARTHUR, TX 77641
MAR	San Francisco Radio / KFS; Station Manager; POB 56; HALF MOON BAY, CA 94019
MAR	(San Francisco Radio / KPH via RCA San Francisco)
MAR	Slidell Radio WNU; Tropical Radio Telegraph Company; PO Drawer E; PEARL RIVER, LA 70542
MAR	Radio Station WPD; Manager; 4230 West Alva Street; TAMPA, FL 33614
MAR	Tuckerton Radio WSC; Murphy Drive; POB 386; WEST CREEK, NJ 08092
MET	US Department of Commerce; National Oceanic and Atmospheric Administration; National Weather Service; Communications Division; Chief; SILVER SPRING, MD 20910
MFA	Department of State; Office of Communications; Radio Telegraph Communications; Room 44 A 20; 21st & C Street, N.W.; WASHINGTON, DC 20520
NAV	(USN Key West via USN Norfolk)
NAV	Naval Eastern Oceanography Center; McAdie Building U117; Naval Air Station; NORFOLK, VA 23511-5399
PRS	The Associated Press; Communications Department; Technical Center; 16 Elkin Road; EAST BRUNSWICK, NJ 08816
PRS	United Press International; General Offices; International Telecommunications Chief; News Building; 220 East 42nd Street; NEW YORK, NY 10017
PTT	RCA Global Communications Inc; Operations Department; 2 International Drive; RYE BROOK, NY 10753
PTT	RCA Global Communications; 17400 Sir Francis Drake Boulevard; POINT REYES STATION, CA 94956
TSF	Station WWV; Engineer-in-charge; Route 2; Box 83-E; FORT COLLINS, CO 8052

URUGUAY

URG / CV-CX / 86300-86599 / SU / 121F4

AIR	Direccion General de Aeronautica; Aerupuerto Internacional de Carrasco; CANELONES
ALC	Aerosur SA; Rio Negro 1354; MONTEVIDEO
ALC	Aero Uruguay SA; Calle Florida 1280; Esc. 202; MONTEVIDEO

ALC Primeras Lineas Uruguayas de Navegacion Aerea; Colonia 1013; P. 7; MONTEVIDEO
MAR (Cerrito R via ANTEL Montevideo)
PTT Administracion Nacional de Telecomunicaciones; Departemento de Transmision; Jefe Ingeniero; Colonel Brandzen 1961; Piso 12, Esc. 1201; MONTEVIDEO

VANUATU VUT / YJ / 91550-91569 / NV / 9A10

AIR Ministry of Transport and Communications; Civil Aviation Department; PORT-VILA
ALC Air Vanuatu Ltd; POB 148; PORT-VILA
MAR (Port-Vila R via PTT Port-Vila)
PTT Telecom Vanuatu Ltd; POB 146; PORT-VILA

VATICAN CITY STATE CVA / HV / - / - / 79A5

PTT Governatorato - Secretariat General; Administration des PTT; CITTA DEL VATICANO

VENEZUELA VEN / YV-YY 4M / 80400-80799 / SV / 119E4

AIR Direccion de Aeronautica Civil; Parque Central; Torre Este, Piso 32; Avenida Lecuna; CARACAS 1010
ALC Aeropostal; Torre Este; Parque Central; Pisos 46/47/48; CARACAS 1010
ALC Aerovias Venezolanas SA; Avenida Universidad; Esquina El Chorro; Torre El Chorro; Edificio 29; CARACAS 101
ALC Interamericana Cargo Venezuela; Avenida Mexico; Torre Bellas Artes; Piso 9; Esquina Sur 21; CARACAS
ALC Venezolana Internacional de Aviacion SA; ; Torre Viasa; Plaza Morelos; Avenida Sur 25; Los Caobos; CARACAS 105
ALC Zuliana Air; POB 660485; MIAMI, FL 33166; USA
MAR Ministerio de Comunicaciones; Direccion de Telecomunicaciones; Estacion Costera de Arrecifes; Jefe de Estacion; LA GUAYRA
MET Ministerio de Defensa; Fuerza Aerea; Servicio de Meteorologia y Comunicaciones; Section of Meteorological Telecommunications; Edificio "El Prado"; Avenida Bolivar Este 75; MARACAY
TSF Observatorio Cagigal; Apartado 6745; La Planacie; CARACAS

VIET NAM VTN / XV 3W / 48000-48920 / VV / 25H3

AIR General Civil Aviation Administration; Directorate General; 25 Trang Thi; HANOI
ALC Hang Khong Viet Nam; Gialem Airport; HANOI
MET Service Hydrometeorologique; Departement des Previsions Hydrometeorologiques; 4 Rue Dang Thai Than; HANOI
PRS Viet-Nam Thong Tan Xa; HANOI
PTT Direction Generale des Postes et Telecommunications; 18 Rue Nguyen Du; HANOI

VIRGIN ISLANDS (BRITISH) VRG / see United Kingdom / 78550-78559 / TU / 105L7

ALC Air BVI; Box 85; ROAD TOWN, Tortola

VIRGIN ISLANDS (UNITED STATES) VIR / see United States of America / 78543-78547 / TI / 105L7

MAR (Saint Thomas R via ITT Saint Thomas)
PTT ITT Communications Inc; Charlotte Amalie; POB 3768; SAINT THOMAS 00801

WAKE ISLAND

WAK / see United States of America / 91245 / PW / 9A6

WALLIS AND FUTUNA ISLANDS

WAL / see France / 91750-91754 / NL / 10R4

WORLD METEOROLOGICAL ORGANIZATION

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YEMEN

YEM / 4W 7O / 41320-41499 / OD OY / 33E9

AIR	Department of Civil Aviation; POB 424 - Crater; ADEN
AIR	Ministry of Communications; Civil Aviation and Meteorology Authority; International Airport; POB 1438; SAN'A
ALC	Alyemda; POB 6006; Alyemda Building; Khormaksar Civil Airport; ADEN
ALC	Yemenia; Communications Operations Department; Zubeiry Street; POB 1183; SAN'A
MAR	(Aden R via YEMENTEL Aden)
MAR	(Hodeidah R via C+W San'a)
PRS	Aden News Agency; POB 1027; ADEN
PTT	Cable and Wireless PLC; Ghuraff; POB 168; SAN'A
PTT	Yemen Telecommunications Corp; Radio Regulatory Division; General Manager; POB 1256; Tawahi; ADEN

YUGOSLAVIA

YUG / YT-YU YZ 4N-4O / 13000-13599 / LY / 81D6

AIR	Savezna uprava za civilnu vazdusnu plovidbu; Brankova 25/V; Postanski Fah 566; YU-11000 BELGRADE
ALC	Adria Airways; Kuzmiveca 7; YU-61003 LJUBLJANA
ALC	Aviogenex; SAVA Centar; Suite 15; M. Popovitca 9; YU-11070 NEW BELGRADE
ALC	Jugoslovenski Aerotransport; M. Popovitca 9; SAVA Centar; YU-11070 NEW BELGRADE
MAR	Ustanova za odrzawanje pomorskih plovnih putova; obalna radiostanica Bar; YU-81350 BAR
MAR	Rijeka Radio YUB/YUZ; Obalna Radio Stanica; Chief Engineer; YU-51005 RIJEKA SOPALJ
MAR	Ustanova za odrzavanje pomorskih plovnih putova; obalna radiostanica Split; YU-68000 SPLIT
PRS	Telegrafska Agencija Nova Jugoslavija; Administracija; Obilicev Venac 2; Post. fah 439; YU- BELGRADE

ZAIRE

ZAI / 9O-9T / 64000-64379 / FZ / 84G6

AIR	Regie des Voies Aeriennes; Direction Generale; Administration Centrale; Direction de l'Infrastructure; Radio Electrique; Le Delegue General; Aeroport International de N'Djili; BP 6574; KINSHASA-NDOLO
ALC	African Air Charter; Ndjili Airport; KINSHASA
ALC	Air Charter Service; BP 5371; KINSHASA 10
ALC	Air Zaire; Aeroport N'Djili; BP 10120; KINSHASA 24
ALC	Business Cash Flow Aviation; Aeroport N'Djili; KINSHASA
ALC	Katale Aero Transport; BP 9880; GOMA
ALC	National Air Freight; Aeroport N'Djili; KINSHASA
ALC	Scibe Airlift; BP 614; KINSHASA 1
ALC	Sicotra Aviation; Aeroport N'Djili; KINSHASA
MAR	Regie des Voies Maritimes; Station Cotiere Banana-Radio; Chef de Station; BP 5; BANANA

ZAMBIA

ZMB / 9I-9J / 67400-67999 / FL / 92B9

AIR	Department of Civil Aviation; Director of Civil Aviation; POB 50137; LUSAKA
ALC	Zambia Airways Corp Ltd; POB 30272; LUSAKA

ZIMBABWE ZWE / Z2 / 67400-67999 / FV / 92C11

AIR Department of Civil Aviation; Sarum House; 78 Manica Road; Private Bag 7716; HARARE
ALC Affretair Ltd; POB 655; HARARE
ALC Air Zimbabwe Corp; POB AP 1; International Airport; HARARE ☺

Figure 8 - Another view of the OTS satellite antenna on Rodrigues (see page 2)

25 Abbreviations

This list contains both name and traffic abbreviations. The latter are used both in the traffic between radio stations, and in the "details" column of the "Frequency list of utility stations" (chapter 3.3).

For abbreviations used in aeronautical telecommunication please refer to chapter 8 in our AIR AND METEO CODE MANUAL.

For a reverse list giving countries and the corresponding ITU symbols see chapter 24.

Contrary to the official allocation, we use throughout our publications

CHN	for the People's Republic of China;
MYA	for Myanmar;
NLD	for Netherlands;
SLK	for Sri Lanka;
TAI	for Taiwan (Republic of China);
URS	for the Union of Soviet Socialist Republics including Byelorussia and Ukrainia.

A	Arabic (see chapter 6.1 in our RADIOTELETYPE CODE MANUAL)
AA	All after ...
AA	Anadolu Ajansi
AA	Austrian Army
AAA	Shared throughout the world
AAB	Shared by several countries, but in a restricted area of the world
AACR	All America Cables and Radio Inc
AARI	Arctic and Antarctic Research Institute
AASANA	Administracion de Aeropuertos y Servicios Auxiliares a la Navegacion Aerea
AB	All before ...
ABT	About
ABW	Aruba
ACT	Australian Capital Territory
ADL	Adelie Land
ADS	Address
AEROFLOT	Soviet Airlines
AF	Audio frequency
AFB	Air Force Base
AFC	Area Forecast Centre
AFG	Afghanistan
AFI	Africa MWARA
AFI	For flights to Africa
AFP	Agence France Presse
AFRTS	Armed Forces Radio and Television Service
AFS	South Africa (Republic of)
AFTN	Aeronautical Fixed Telecommunication Network
AGL	Angola
AGN	Again
AIA	Anguilla
AIR	Aeronautical Fixed Station
AL	Alabama
ALB	Albania
ALG	Algeria
ALS	Alaska
ALTA	Alberta
AM	Amplitude modulation

AMOCO	American Oil Company
AMS	Aeronautical Mobile Service
AMS	Amsterdam and Saint Paul
AMTOR	Amateur microprocessor teleprinting over radio according to CCIR 476-4 (see chapter 7 in our RADIOTELETYPE CODE MANUAL)
AMVER	Automated mutual-assistance vessel rescue system
AN	Argentine Navy
ANAL	Analysis
AND	Andorra
ANGOP	Agencia Angola Press
ANNS	Announces
ANS	Answer
ANSA	Agenzia Nazionale Stampa Associata
ANT	Antenna
AP	Associated Press
APA	Austrian Press Agency
APN	Agentstwo Petschati Nowosti
APO	Army or Air Force Post Office
APS	Algerie Presse Service
AR	Arkansas
AR	Armenia
AR	End of transmission (.-.-. *to be sent as one signal)*
ARAMCO	Arabian American Oil Company
ARG	Argentina
ARGOIL	Arab Gulf Oil Co
ARQ	Synchronous transmission and automatic repetition (in general)
ARQ-E	Single-channel ARQ system according to UNIVERSAL and WAVECOM (see advertisements at the end of this book, and chapter 9 in our RADIOTELETYPE CODE MANUAL)
ARQ-E3	Single-channel ARQ ITA3 system according to UNIVERSAL and WAVECOM (see advertisements at the end of this book)
ARQ-M2	Multiplex ARQ system with 2 data channels according to CCIR 342-3 (see chapter 8 in our RADIOTELETYPE CODE MANUAL)
ARQ-M2-242	Multiplex ARQ system with 2 data channels according to CCIR 242-2 (see chapter 8 in our RADIOTELETYPE CODE MANUAL)
ARQ-M4	Multiplex ARQ system with 4 data channels according to CCIR 342-3 (see chapter 8 in our RADIOTELETYPE CODE MANUAL)
ARQ-M4-242	Multiplex ARQ system with 4 data channels according to CCIR 242-2 (see chapter 8 in our RADIOTELETYPE CODE MANUAL)
ARQ-N	Italian commercial ARQ system according to WAVECOM (see advertisement at the end of this book)
ARS	Saudi Arabia
AS	Waiting period (.-... *to be sent as one signal)*
ASC	Ascension
ASECNA	Agence pour la Securite de la Navigation Aerienne en Afrique et a Madagascar
ATA	Agence Telegraphique Albanaise
ATA	Antarctic
ATCC	Agence Telegraphique Centrale de Coree
ATG	Antigua and Barbuda
ATN	Netherlands Antilles
ATU	Arab Telecommunication Union
ATU-A	Arabic ATU alphabet (see chapter 6.11 in our RADIOTELETYPE CODE MANUAL)
AUS	Australia
AUT	Austria
AUTOSPEC	Bauer error-correcting code according to WAVECOM (see advertisement at the end of this book)
AWS	Air Weather Service
AZ	Arizona
AZ	Azerbaydzhan

AZR	Azores
B	Brazil
BA	Belgian or British Army
BAF	Belgian Air Force
BAH	Bahamas
BATELCO	Bahrain Telecommunications Company
BC	British Columbia
BC	Broadcast
BD	Bad
BD	Baud
BDI	Burundi
BEL	Belgium
BEN	Benin
BER	Bermuda
BEXTEL	Barbados External Telecommunications Ltd
BFA	Bourkina Faso
BGD	Bangla Desh
BHR	Bahrain
BHU	Bhutan
BIO	British Indian Ocean Territory
BIPM	Bureau International des Poids et des Mesures
BK	Signal used to interrupt a transmission in progress
BKF	Baroclinic model (9 levels, with humidity, grid 254 km)
BKN	Baroclinic model (9 levels, with humidity, grid 127 km)
BLR	Byelorussia
BLZ	Belize
BMPT	Bundesministerium für Post und Telekommunikation
BN	All between … and …
BN	Belgian or Brazilian or Bulgarian Navy
BOL	Bolivia
BOT	Botswana
BP	British Petroleum
BQ	A reply to an RQ
BRB	Barbados
BRM	Myanmar
BRU	Brunei
BT	British Telecom
BT	Signal to mark the separation between different parts of the same transmission (-...- *to be sent as one signal)*
BTA	Bulgarska Telegrafitscheka Agentzia
BTN	Bhutan
BTR	Better
BTTB	Bangla Desh Telegraph and Telephone Board
BUL	Bulgaria
BY	Byelorussia
C	Yes
CA	California
CAF	Central African Republic
CAN	Canada
CAPWIRE	Capitol Wireless Inc
CAR	Caribbean MWARA
CAR	Caroline Islands
CAT	Communications Authority of Thailand
CBG	Cambodia
CCG	Canadian Coast Guard
CCIR	International Radio Consultative Committee
CCITT	International Telegraph and Telephone Consultative Committee
CCT	Circuit
CEP	Central East Pacific MWARA
CEU	For flights within Central Europe

CF	Canadian Forces
CFARS	Canadian Forces Affiliated Radio System
CFM	Confirm (OR I confirm)
CH	Channel
CHF	Swiss Franken
CHL	Chile
CHN	China
CHR	Christmas Island
CIRM	Centro Internazionale Radio Medico
CK	Check
CKH	Cook Islands
CL	I am closing my station
CLG	Calling
CLM	Colombia
CLN	Sri Lanka
CLR	Clear
CME	Cameroon
CN	Chilene or Colombian Navy
CNA	Central News Agency Inc
CNR	Canary Islands
CO	Colorado
COG	Congo
COL	Collate (OR I collate)
COM	Comoros
COMB	Combination of telephony and telegraphy audible within a 4 kHz bandwidth (for example B9W) (see chapter 4 in our RADIOTELETYPE CODE MANUAL)
COPE	Cofradia de Pescadores
COR	Correction
CP	Computer product
CP	General call to two or more specified stations
CPRM	Companhia Portuguesa Radio Marconi
CPV	Cape Verde
CPV	Compania Peruana de Vapores
CQ	General call to all stations
CRO	Crozet Archipelago
CRS	Compagnie Republicaine de Securite
CS	Call sign
CT	Connecticut
CTA	Cyprus Telecommunications Authority
CTI	Ivory Coast
CTR	Costa Rica
CUB	Cuba
CVA	Vatican City State
CW	Continuous wave (Morse code)
C+W	Cable and Wireless Ltd
CWP	Central West Pacific MWARA
CYM	Cayman Islands
CYP	Cyprus
D	Germany
DA	Danish Army
DAF	Dutch Air Force
DBL	Double
DC	District of Columbia
DCT	Direct
DDD	Used to identify the transmission of the distress message by a station not itself in distress
DDSG	Erste Donau-Dampfschiffahrts-Gesellschaft
DE	Delaware
DE	From
DEM	German Mark

DF	Your bearing at ... hours was ... degrees, in the doubtful sector of this station, with a possible error of ... degrees
DGA	Diego Garcia
DGTMMM	Direccion General del Territorio Maritima y Marina Mercante
DHI	Deutsches Hydrographisches Institut
DIF	Different
DIPLO	Direction des Services d'Information et de Presse
DIS	Diplomatic Information Service
DJI	Djibouti
DLD	Delivered
DM	Danish Marine
DMA	Dominica
DN	Dutch Navy
DNK	Denmark
DO	Bearing doubtful. Ask for another bearing later (*or* at ... hours)
DOM	Dominican Republic
DP	Deutsche Post
DPA	Deutsche Presse-Agentur
DR	Dear
DSB	Double sideband
DSC	Digital Selective Calling
DSCT	Direccao dos Servicos de Correios e Telecomunicacoes
DTG	Date-time group
DTRE	Direction des Telecommunications des Reseaux Exterieurs
DTS	Droit de tirage special
DUP-ARQ	Hungarian diplomatic simplex ARQ system according to WAVECOM (see advertisement at the end of this book)
DUPE	This is a duplicate message
DW	Deutsche Welle
DWT	Deadweight tonnage
DYN	Diarios y Noticias
E	East
E	Embassy
E	English
E	Spain
EA	East Asia MWARA
EA	Ethiopian Airlines
ECMWF	European Centre for Medium-Range Weather Forecasts
E E E	Error signal
EGY	Egypt
EHF	Extreme high frequency
EL	Element
EMBRATEL	Empresa Brasileira de Telecomunicacoes
EMIRTEL	Emirates Telecommunications Corporation Ltd
EN	Egyptian or Equadorian Navy
ENATEL	Empresa Nacional de Telecomunicacoes
ENCOTEL	Empresa Nacional de Correos y Telegrafos
ENPA	Empresa Nacional de Petroleos de Aragon, SA
ENTEL	Empresa Nacional de Telecomunicaciones
EPD	Evangelischer Pressedienst
EQA	Ecuador
ER	Here ...
ERP	Effective radiated power
ES	And
ES	Estonia
ETA	Estimated time of arrival
ETA	Ethiopian Telecommunications Authority
ETAL	Empresa Telecomunicaciones Australes Ltda
ETH	Ethiopia
ETPI	Eastern Telecommunications Philippines Inc

EUCAR	For flights to the Caribbean area
EUR	Europe MWARA
EUR	For flights within the European-Mediterranean region
EURSAM	For flights to South America
EX	Formerly
F	Fisheries
F	France
F	French
FA	French Army
FAF	French Air Force
FAX	Facsimile
FCST	Forecast
FDM	Frequency division multiplex (in general)
FE	Russia (Far East E of 140° E)
FEC	Forward error correction (in general)
FEC-A	One-way traffic FEC system according to UNIVERSAL and WAVECOM (see advertisements at the end of this book, and chapter 10 in our RADIOTELETYPE CODE MANUAL)
FF	French Forces
FIG	Figure(s)
FITEL	Fiji International Telecommunications Ltd
FJI	Fiji
FL	Flight level
FL	Florida
FLD	Field
FLK	Falkland Islands (Malvinas) and Dependencies
FM	Frequency modulation
FM	From
FN	French Navy
FNL	Finland
FOXES	Test slip such as "the quick brown fox jumps over the lazy dog's back de nsy testing 1234567890"
FPO	Fleet Post Office
FSK	Frequency-shift keying
FSM	Micronesia
FSP	Flatbed Scanning Process
FYI	For your information
G	German
G	United Kingdom
GA	Georgia
GA	German Army
GA	You may transmit
GAB	Gabon
GAF	German Air Force
GAMTEL	Gambia Telecommunication Co Ltd
GCA	Territories of the United Kingdom in Region 1
GCB	Territories of the United Kingdom in Region 2
GCC	Territories of the United Kingdom in Region 3
GD	Good
GDL	Guadeloupe and Dependencies
GE	Georgia
GHA	Ghana
GIB	Gibraltar
GMB	Gambia
GMDSS	Global Maritime Distress and Safety System
GMT	Greenwich Mean Time
GN	German or Greek Navy
GNA	Gulf News Agency
GNB	Guinea-Bissau
GNE	Equatorial Guinea

GP	Group
GPO	General Post Office
GRC	Greece
GRD	Grenada
GRL	Greenland
GRT	Gross register tonnage
GTC	Government Telecommunication Centre
GTM	Guatemala
GTS	Global Telecommunication System
GUF	Guiana (French)
GUI	Guinea
GULPECO	Gulf Petroleum Company
GUM	Guam
GUY	Guyana
GUYTELCO	Guyana Telecommunication Corporation
HAB	Hamburger Abendblatt
HCG	Hellenic Coast Guard
HDG	Heading
HF	High frequency
HI	Laughter
HKG	Hong Kong
HN	Hungarian Navy
HND	Honduras
HNG	Hungary
HOL	Netherlands
HPA	Hectopascal
HQ	Headquarters
HR	Hour
HRS	Hours
HTI	Haiti
HW	How
HWA	Hawaii
HWL	Howland Island
HX	Harmonic emission of
I	Italian
I	Italy
IA	Iowa
IA	Italian Army
IAF	Italian Air Force
IAG	Institute of Applied Geophysics
IAT	International Atomic Time
ICAO	International Civil Aviation Organization
ICO	Cocos (Keeling) Islands
ICRC	International Committee of the Red Cross
ID	Idaho
ID	Identification
IFG	Italian Finance Guard
IFL	International Frequency List
IFRB	International Frequency Registration Board
IL	Illinois
IMI	Interrogation sign (..--.. *to be sent as one signal)*
IN	Indian or Indonesian or Israel or Italian Navy
IN	Indiana
INA	Iraqi News Agency
IND	India
INF	Information
INM	Instituto Nacional de Meteorologia
INO	Indian Ocean MWARA
INS	Indonesia
INT	Interrogation sign

INTEL	Instituto Nacional de Telecomunicaciones
INTERPOL	Organisation Internationale de la Police Criminelle
IOC	Index of cooperation
IOEPC	Iranian Oil Exploration and Producing Company
IORC	Iranian Oil Refining Company Ltd
IR	Infrared
IRL	Ireland
IRN	Iran
IRNA	Islamic Republic News Agency
IRPT	I repeat
IRQ	Iraq
ISB	Independent sidebands audible within a 4 kHz bandwidth
ISD	Inverted scanning direction
ISL	Iceland
ISR	Israel
ITA	International Telegraph Alphabet
ITALCABLE	Servizi Cablografici, Radiotelegrafici e Radioelettrici
ITP	The punctuation counts
ITT	International Telephone and Telegraph Co
ITTCHL	International Telephone and Telegraph Comunicaciones Mundiales SA Chile
ITU	International Telecommunication Union
J	Japan
JANA	Jamahiriyah News Agency
JAR	Jarvis Island
JAT	Jugoslovenski Aerotransport
JCG	Jamaican Coast Guard
JIJI	Jiji Tsushin Sha
JMC	Jamaica
JN	Japanese Navy
JON	Johnston Island
JOR	Jordan
K	Invitation to transmit
KA	Kazakhstan
KA	Starting signal (-.-.- *to be sent as one signal)*
KC	Kilocycles
KCNA	Korean Central News Agency
KDD	Kokusai Denshin Denwa Co Ltd
KEN	Kenya
KER	Kerguelen Islands
KHZ	Kilohertz
KI	Kirgiziya
KIR	Kiribati
KMH	Kilometers per hour
KNA	Katholische Nachrichtenagentur
KOR	Korea (Republic of)
KPL	Khaosan Pathet Lao
KRE	Korea (Democratic People's Republic of)
KTS	Nautical miles per hour (*knots*)
KWT	Kuwait
KY	Kentucky
KYODO	Kyodo Tsushin
LA	Latvia
LA	Louisiana
LAB	Labrador
LAO	Laos
LBN	Lebanon
LBR	Liberia
LBY	Libya
LCA	Saint Lucia
LF	Low frequency

LFM	Limited-area fine mesh
LI	Lithuania
LIE	Liechtenstein
LKA	Landeskriminalamt
LL	Landline
LN	Lebanese Navy
LORAN	Long Range Navigation System
LR	The last message received by me was ...
LS	The last message sent by me was ...
LSB	Lower sideband
LSO	Lesotho
LTR	Letter(s)
LUX	Luxembourg
LW	Longwave
MA	Massachussetts
MAC	Macao
MAFOR	Forecast for shipping
MAN	Manitoba
MAP	Maghreb Arabe Presse
MAR	Maritime
MARS	Military Affiliated Radio System
MAU	Mauritius
MB	Millibar
MC	Megacycles
MC	Multiple copy
MCO	Monaco
MD	Maryland
MDG	Madagascar
MDR	Madeira
MDW	Midway Islands
ME	Maine
MEA	Ministry of External Affairs
MENA	Middle East News Agency
METEO	Fixed Station used for the transmission of meteorological information
MEX	Mexico
MF	Medium frequency
MFA	Ministry of Foreign Affairs
MHZ	Megahertz
MI	Michigan
MID	For flights to the Middle and Far East
MID	Middle East MWARA
MIL	Military
MIN	Minute (*or* Minutes)
MINERVA	P.E.E.A. Minerva S.R. Ltda
MIS	Missing
MK	Mark
MLA	Malaysia
MLD	Maldives
MLD	Mixed layer depth
MLI	Mali
MLT	Malta
MM	Melody mirror
MMM	Frequency assignment for inter-ship communications
MMS	Maritime Mobile Service
MN	Mexican or Mozambique Navy
MN	Minnesota
MNG	Mongolia
MO	Missouri
MO	Moldavia
MOD	Ministry of Defense

MOD	Modulation
MOI	Ministry of Interior
MONTSAME	Mongolian Telegraphic Agency
MOZ	Mozambique
MPH	Statute miles per hour
MRA	Marianas (Northern)
MRC	Morocco
MRL	Marshall Islands
MRN	Marion Island
MRT	Martinique
MS	Mississippi
MSA	Maritime Safety Agency
MSG	Message
MSI	Maritime Safety Information
MSL	Mean sea level
MSR	Misrouted
MSR	Montserrat
MSV	Manned Space Vehicle
MT	Montana
MTI	Magyar Tavirati Iroda
MTN	Mauritania
MTOW	Maximum take-off weight
MUX	Multiplex
MW	Medium wave
MWARA	Major World Air Route Area (see map 1)
MWI	Malawi
MWM	Worldwide
MX	Music
MYA	Myanmar
MYT	Mayotte Island
N	North
N	Norwegian
NA	Noticias Argentinas
NAN	News Agency of Nigeria
NAT	For flights to North America
NAT	North Atlantic MWARA
NATO	North Atlantic Treaty Organization
NAVTEX	Navigational and meteorological warnings and urgent information for ships
NB	New Brunswick
NBDPT	Narrow-Band Direct-Printing Telegraphy
NBFM	Narrow-band frequency modulation
NC	North Carolina
NCA	North Central Asia MWARA
NCG	Netherlands Coast Guard
NCG	Nicaragua
NCL	New Caledonia and Dependencies
ND	Non-directional
ND	North Dakota
NE	Nebraska
NEOC	Naval Eastern Oceanography Center
NFK	Norfolk Island
NFLD	Newfoundland
NGR	Niger
NH	New Hampshire
NI	Norfolk Island
NIG	Nigeria
NIL	I have nothing to send to you
NITEL	Nigerian Telecommunications Ltd
NIU	Niue Island
NJ	New Jersey

NLD	Netherlands
NM	New Mexico
NMB	Namibia
NMC	National Meteorological Center
NN	Norwegian Navy
NO	No
NOAA	National Oceanic and Atmospheric Administration
NOGAPS	Navy Operational Global Atmospherics Prediction System
NOR	Norway
NORAD	North American Aerospace Defence Command
NORAPS	Navy Operational Regional Atmospherics Prediction System
NP	North Pacific MWARA
NPL	Nepal
NR	Near
NR	Number
NRU	Nauru
NS	Nova Scotia
NSW	New South Wales
NT	Northern Territory
NTA	National Telecommunication Administration
NTA	Norwegian Telecommunications Administration
NV	Nevada
NW	Now
NWS	National Weather Service
NWT	North West Territories
NX	News (*or* notices)
NY	New York
NZL	New Zealand
OBS	Observations
OCE	Polynesia (French)
OGERO	Organisme de Gestion et d'Exploitation des installations et des equipements de l'ex-societe Radio Orient
OH	Ohio
OK	Oklahoma
OK	We agree (*or* It is correct)
OL	Ocean letter
OM	Old man
OMA	Oman
OMT	Office Monegasque des Telephones
ONC	Stations of the "United Nations Military Observer Group in India and Pakistan"
ONJ	Stations of the "United Nations Truce Supervision Organization in areas between the Armistice Demarcation Lines at Jerusalem"
ONPT	Office National des Postes et Telecommunications
ONT	Ontario
OP	Operator
OR	Oregon
(OR)	Communications, including those relating to flight coordination, concerning flights primarily outside national or international civil air routes
OTC	Overseas Telecommunications Co
OTIC	Office des Telecommunications Internationales du Congo
OTS	Overseas Telecommunications Service
OWS	Ocean Weather Ship
P	Portuguese
P	Prefix indicating a private radiotelegram
PA	Pennsylvania
PAF	Portuguese Air Force
PAK	Pakistan
PANA	Pan African News Agency
PAP	Polska Agencja Prasowa
PAQ	Easter Island

PB	Parks Board
PBL	Preamble
PDH	Pesquera Davanzo e Hijos SA
PEI	Prince Edward Island
PELPER	Petroleos del Peru
PEM	Primitive equation model
PEMEX	Petroleos Mexicanos
PEP	Peak envelope power
PERTAMINA	Indonesian National Petroleum Company
PERUMTEL	Perusahaan Umum Telekomunikasi
PESROD	P.E.E.A. Pesquera Rodriguez S.C.R. Ltda
PETRA	Jordan News Agency
PHILCOM	Philippine Global Communications Inc
PHL	Philippines
PHX	Phoenix Islands
PIAB	Presse- und Informationsamt der Bundesregierung
PIL	P.E.E.A. Ilo S.R. Ltda
PIX	Press photograph
PL	Prensa Latina
PLM	Palmyra Island
PLO	Palestine Liberation Organization
PLS	Please
PLW	Palau
PM	Pulse modulation
PN	Pakistan or Paraguayan or Peruvian or Portuguese Navy
PNG	Papua New Guinea
PNN	Prefectura Nacional Naval
PNR	Panama
POL	Poland
POL-ARQ	Polish diplomatic ARQ system according to WAVECOM (see advertisement at the end of this book)
POR	Portugal
POS	Position
PRG	Paraguay
PROG	Prognosis
PRU	Peru
PSE	Please
PT	Part
PTC	Pitcairn Island
PTP	Point-to-point
PTR	Puerto Rico
PTT	Post, Telegraph and Telephone Administration
QAT	Qatar
QLD	Queensland
QPTC	Qatar Public Telecommunication Corporation
QUE	Quebec
R	Radio (coastal station)
R	Received
R	Russian (see chapter 6.2 in our RADIOTELETYPE CODE MANUAL)
(R)	Communications relating to safety and regularity of flight, primarily along national or international civil air routes.
RAAF	Royal Australian Air Force
RAF	Royal Air Force
RAFC	Regional Area Forecast Centre
RAN	Royal Australian Navy
RCA	Radio Corporation of America Global Communications Inc
RCAC	Radio Corporation of America Communications Inc
RCC	Rescue Coordination Centre
RDARA	Regional and Domestic Air Route Area (see map 2)
RE	Concerning

REF	Reference to ... (*or* Refer to ...)
REFPA	Refineria de Panama, SA
REG1	Region 1
REG2	Region 2
REG3	Region 3
REU	Reunion and Dependencies
REUTER	Reuters Ltd
RF	Radio frequency
RFDS	Royal Flying Doctor Service
RFE	Radio Free Europe
RI	Rhode Island
RJ	Royal Jordanian
RMC	Regional Meteorological Centre
RN	Royal Navy
RNZAF	Royal New Zealand Air Force
RNZN	Royal New Zealand Navy
ROD	Rodrigues
ROMPRES	Agentia Romana de Presa
ROU	Romania
RPFR	Reperforator
RPM	Rotations per minute
RPT	Repeat (*or* I repeat) (*or* Repeat ...)
RQ	Indication of a request
RR	Radio Regulation
RRL	Radio Research Laboratories
RRW	Rwanda
RTT	Regie des Telegraphes et des Telephones
RTTY	Radioteletype
RU	Russia (W of 60° E)
RX	Receiver
RY	Test slip such as "qra de atr68 here gentel calcutta testing to gentel hanoi ryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryryry"
RYI	Test slip such as "de mkt testing ryiryiryiryiryiryiryiryiryiryiryiryiryiryiryiryiryiryiryi"
S	South
S	Spanish
S	Sweden
SA	South Australia
SA/AAMC	Soviet Arctic/Antarctic Meteo Centre
SAAM	Soviet Antarctic Meteo
SABP	Service Algerien des Phares et Balises
SABS	Saudi Arabian Broadcasting Service
SAF	Soviet Air Force
SAM	South America MWARA
SAM	Soviet Arctic Meteo
SAN	South African Navy
SANA	Syrian Arab News Agency
SAR	Search and Rescue
SASK	Saskatchewan
SAT	South Atlantic MWARA
SAUDIA	Saudi Arabian Airlines
SAU-FEC	Saudi Arabian diplomatic FEC system
SC	Serbo-Croat
SC	South Carolina
SCN	Saint Kitts and Nevis
SCOT	Syrian Company for Oil Transport
SCOTC	Syrian Crude Oil Transportation Company
SD	South Dakota
SDN	Sudan
SE	Russia (Eastern Siberia 100° E - 140° E)
SEA	South East Asia MWARA

SEN	Senegal
SEY	Seychelles
SFC	Surface
SHELL	Shell Brunei Petroleum Company
SHF	Super high frequency
SHN	Saint Helena
SI-ARQ	SIEMENS simplex ARQ system according to WAVECOM (see advertisement at the end of this book, and chapter 11 in our RADIOTELETYPE CODE MANUAL)
SID	Sport-Informationsdienst
SI-FEC	SIEMENS simplex FEC system according to WAVECOM (see advertisement at the end of this book, and chapter 11 in our RADIOTELETYPE CODE MANUAL)
SIG	Signature
SIGWX	Significant weather
SITOR	Simplex teleprinting over radio according to CCIR 476-4 (see chapter 7 in our RADIOTELETYPE CODE MANUAL)
SITOR-A	Simplex teleprinting over radio according to CCIR 476-4, mode A (ARQ) (see chapter 7 in our RADIOTELETYPE CODE MANUAL)
SITOR-B	Simplex teleprinting over radio according to CCIR 476-4, mode B (FEC) (see chapter 7 in our RADIOTELETYPE CODE MANUAL)
SLECOM	Sierra Leone External Telecommunications Ltd
SLK	Sri Lanka
SLM	Solomon Islands
SLT	Radiomaritime letter
SLV	El Salvador
SMA	Samoa (American)
SMO	Samoa (Western)
SMR	San Marino
SN	Soviet or Spanish Navy
SNG	Singapore
SNIM	Societe Nationale Industrielle et Miniere
SOCATI	Societe Centrafricaine des Telecommunications Internationales
SOLTEL	Solomon Islands International Telecommunications Ltd
SOM	Somalia
SOS	Distress signal (...---... *to be sent as one signal)*
SP	South Pacific MWARA
SP	Space
SP	Spurious emission of
SPA	Sarawak Port Authority
SPK	Sapordamean Phnom Penh Kampuchea
SPM	Saint-Pierre and Miquelon
SRI	Sorry
SRL	Sierra Leone
SS	Indicator preceding the name of a ship station
SSB	Single sideband
ST	Swedish Telecom
STE	Syrian Telecommunications Establishment
STIM	Societe des Telecommunications Internationales du Mali
STM	Syarikat Telekom Malaysia Berhad
STP	Sao Tome and Principe
SUI	Switzerland
SUNA	Sudan News Agency
SUR	Surinam
SVC	Prefix indicating a service telegram
SW	Russia (Western Siberia 60° E - 100° E)
SW	Shortwave
SWED-ARQ	Swedish diplomatic simplex ARQ system according to WAVECOM (see advertisement at the end of this book)
SWL	Shortwave listener
SWN	Swan Islands
SWZ	Swaziland

SYR	Syria
SYS	Refer to your service telegram
TA	Tadzhikistan
TAI	Taiwan
TANJUG	Telegrafska Agencija Nova Jugoslavija
TAP	Tunis Afrique Presse
TAS	Tasmania
TAS	Telecommunications Authority of Singapore
TASA	Telecomunicacoes Aeronauticas SA
TASS	Telegrafnoje Agentstwo Sowjetskogo Sojusa
TBL	Trouble
TC	Transradio Chilena
TCA	Turks and Caicos Islands
TCD	Chad
TCH	Czechoslovakia
TDM	Time division multiplex (in general)
TELAM	Telenoticiosa Americana
TELEMALTA	Malta Telecommunications Corporation
TELESENEGAL	Societe des Telecommunications Internationales du Senegal
TEXCOM	Telecomunicaciones Internacionales
TFC	Traffic
TGM	Telsiz Genel Müdürlügü
TGO	Togo
THA	Thailand
TIG	Telecommunications Internationales Gabonaises
TKL	Tokelau Islands
TMW	Tomorrow
TN	Tennessee
TN	Turkish Navy
TOC	Trinidad Oil Company
TON	Tonga
TR	Used by a land station to request the position and next port of call of a mobile station; used also as a prefix to the reply
TRC	Tristan da Cunha
TRD	Trinidad and Tobago
TRT	Tropical Radio Telegraph Corporation
TS	Time Signals and/or Standard Frequency Station
TTC	Tonga Telecommunication Commission
TTS	Telex and/or traffic to ships
TTT	This group when sent three times constitutes the safety signal
TTY	Teletype
TU	Thank you
TU	Turkmeniya
TUN	Tunisia
TUR	Turkey
TURBAN	T.C. Turizm Bankasi AS
TUV	Tuvalu
TV	Television
TWX	TWX Network
TX	Texas
TX	Transmitter
TXT	Text
TZA	Tanzania
UAE	United Arab Emirates
UGA	Uganda
UHF	Ultra high frequency
UK	Ukrainia
UKR	Ukrainia
UN	Uruguayan Navy
UNESCAP	United Nations Economic and Social Commission for Asia and the Pacific

UNF	United Nations Forces
UNFICYP	United Nations Peace Force in Cyprus
UNID	Unidentified
UNIFIL	United Nations Interim Forces in Lebanon
UNO	United Nations Organization
UPI	United Press International
UR	Your
URG	Uruguay
URS	Union of Soviet Socialist Republics
USA	United States Army
USA	United States of America (except Alaska and Hawaii)
USAF	United States Air Force
USB	Upper sideband
USCG	United States Coast Guard
USD	United States Dollar
USE	United States Embassy
USIA	United States Information Agency
USLRC	United States Liberia Radio Corporation
USN	United States Navy
UT	Universal Time
UT	Utah
UTC	Coordinated Universal Time
UZ	Uzbekistan
V	Vietnamese
VA	End of work (...-.- *to be sent as one signal)*
VA	Virginia
VAFI	Africa VOLMET Area
VCAR	Caribbean VOLMET Area
VCT	Saint Vincent and the Grenadines
VDC	Video display converter
VEN	Venezuela
VEUR	Europe VOLMET Area
VFT	Voice-frequency telegraphy (for example J7B) (see chapter 4 in our RADIO-TELETYPE CODE MANUAL)
VIC	Victoria
VICMARSA	Victoria del Mar SA
VIR	Virgin Islands (United States)
VIS	Visual
VLF	Very low frequency
VM	Voice mirror
VMID	Middle East VOLMET Area
VN	Venezolan Navy
VNA	Viet Nam News Agency
VNAT	North Atlantic VOLMET Area
VNCA	North Central Asia VOLMET Area
VOA	Voice of America
VOLMET	Meteorological information for aircraft in flight
VPAC	Pacific VOLMET Area
VRG	Virgin Islands (British)
VSAM	South America VOLMET Area
VSEA	South East Asia VOLMET Area
VT	Validity time
VT	Vermont
VTN	Viet Nam
VUT	Vanuatu
VVV...VVV	Marking or test transmission
VWD	Vereinigte Wirtschaftsdienste
VY	Very
W	West
W I	World-Wide Allotment Area I (comprises RDARAs 1, 2 and 3)

W II	World-Wide Allotment Area II (comprises RDARAs 10, 11, 12A - 12D)
W III	World-Wide Allotment Area III (comprises RDARAs 6, 8, 9 and 14)
W IV	World-Wide Allotment Area IV (comprises RDARAs 12E to 12J and 13)
W V	World-Wide Allotment Area V (comprises RDARAs 4, 5 and 7)
WA	Washington
WA	West Australia
WA	Word after ...
WAA	With Armenian alphabet
WAK	Wake Island
WAL	Wallis and Futuna Islands
WB	Word before ...
WCA	With Cyrillic alphabet
WD	Word(s) *or* Group(s)
WEFAX	Weather facsimile
WI	Wisconsin
WLA	With Latin alphabet
WMC	World Meteorological Centre
WMO	World Meteorological Organization
WPM	Words per minute
WTG	Waiting
WTSCA	With third-shift Cyrillic alphabet (see chapter 6.5 in our RADIOTELETYPE CODE MANUAL)
WUI	Western Union International Inc
WUI CARIB	Western Union International Caribbean Inc
WV	West Virginia
WWW	World Weather Watch
WX	Weather
WY	Wyoming
XINHUA	New China News Agency
XQ	Prefix used to indicate an operating communication in the fixed service
XXX	This group when sent three times constitutes the urgency signal
YEM	Yemen
YEMENTEL	Yemen Telecommunications Corporation
YES	Yes
YONHAP	Hapdong News Agency
YPF	Yacimientos Petroliferos Fiscales
YR	Year
YR	Your
YT	Yukon Territory
YUG	Yugoslavia
YZ	The words which follow are in plain language
Z	Coordinated Universal Time
ZAI	Zaire
ZMB	Zambia
ZWE	Zimbabwe
$	Schedule see chapter 11
5fgs	5-figure groups
5lgs	5-letter groups
73	Best wishes
(1190)	Month and year of last reception of unidentified stations
//	In parallel to ☺

For sale: ITU International Frequency List

The IFL is the world's most comprehensive frequency data bank, covering the complete range from 10 kHz to 44.5 GHz. It is published on 180 microfiches A6 size plus 80 for the Annex. We offer "used" editions at the reduced price of DEM 300 (original price is CHF 394). This includes registered airmail postage to everywhere in the world. You need a microfiche reader with the standard magnification of 48×. Our offer does not include the preface (available from ITU for CHF 261, address see page 5) and the microfiche holder and folders (CHF 136).

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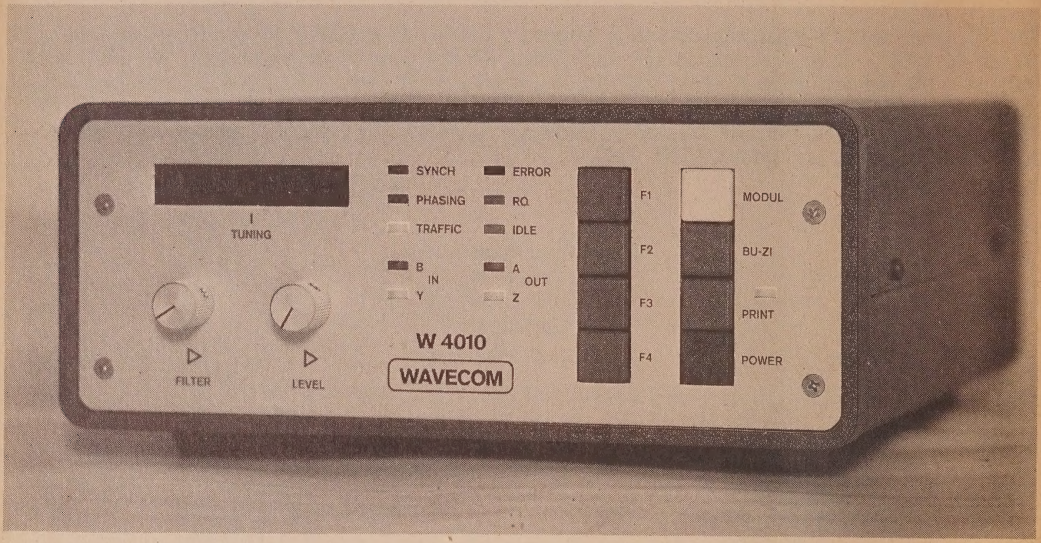
WAVECOM W 4010 SUPERDECODER



professional-grade, high-performance data communications decoder/analyzer, yet easy to use and at an affordable price:

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- * Automatic recognition and display of the data polarity
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- * Four software-controlled character sets in the video signal processing permit the display in Cyrillic or Greek
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Manufacturing and Distribution

Wavecom Elektronik GmbH, Oberdorfstrasse 4
D-7891 Hohentengen-Herdern W.-Germany
Tel. +7742-1063 Fax +7742-4410

Table 1 - MMS SSB duplex transmitting frequencies [in kHz] as of 0001 UTC 01 JUL 1991 (see chapter 21)

Channel No.	4 MHz Band			
	Coast stations		Ship stations	
	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency
401	4 357	4 358,4	4 065	4 066,4
402	4 360	4 361,4	4 068	4 069,4
403	4 363	4 364,4	4 071	4 072,4
404	4 366	4 367,4	4 074	4 075,4
405	4 369	4 370,4	4 077	4 078,4
406	4 372	4 373,4	4 080	4 081,4
407	4 375	4 376,4	4 083	4 084,4
408	4 378	4 379,4	4 086	4 087,4
409	4 381	4 382,4	4 089	4 090,4
410	4 384	4 385,4	4 092	4 093,4
411	4 387	4 388,4	4 095	4 096,4
412	4 390	4 391,4	4 098	4 099,4
413	4 393	4 394,4	4 101	4 102,4
414	4 396	4 397,4	4 104	4 105,4
415	4 399	4 400,4	4 107	4 108,4
416	4 402	4 403,4	4 110	4 111,4
417	4 405	4 406,4	4 113	4 114,4
418	4 408	4 409,4	4 116	4 117,4
419	4 411	4 412,4	4 119	4 120,4
420	4 414	4 415,4	4 122	4 123,4
421	4 417*	4 418,4*	4 125*[4]	4 126,4*
422	4 420	4 421,4	4 128	4 129,4
423	4 423	4 424,4	4 131	4 132,4
424	4 426	4 427,4	4 134	4 135,4
425	4 429	4 430,4	4 137	4 138,4
426	4 432	4 433,4	4 140	4 141,4
427[2]	4 435	4 436,4	4 143	4 144,4
428[1 2 3]	4 351	4 352,4	–	–
429[1 2 3]	4 354	4 355,4	–	–

Channel No.	6 MHz Band			
	Coast stations		Ship stations	
	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency
601	6 501	6 502,4	6 200	6 201,4
602	6 504	6 505,4	6 203	6 204,4
603	6 507	6 508,4	6 206	6 207,4
604	6 510	6 511,4	6 209	6 210,4
605	6 513	6 514,4	6 212	6 213,4
606	6 516*	6 517,4*	6 215*[5]	6 216,4*
607[2]	6 519	6 520,4	6 218	6 219,4
608[2]	6 522	6 523,4	6 221	6 222,4

Channel No.	8 MHz Band			
	Coast stations		Ship stations	
	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency
801	8 719	8 720,4	8 195	8 196,4
802	8 722	8 723,4	8 198	8 199,4
803	8 725	8 726,4	8 201	8 202,4
804	8 728	8 729,4	8 204	8 205,4
805	8 731	8 732,4	8 207	8 208,4
806	8 734	8 735,4	8 210	8 211,4
807	8 737	8 738,4	8 213	8 214,4
808	8 740	8 741,4	8 216	8 217,4
809	8 743	8 744,4	8 219	8 220,4
810	8 746	8 747,4	8 222	8 223,4
811	8 749	8 750,4	8 225	8 226,4
812	8 752	8 753,4	8 228	8 229,4
813	8 755	8 756,4	8 231	8 232,4
814	8 758	8 759,4	8 234	8 235,4
815	8 761	8 762,4	8 237	8 238,4
816	8 764	8 765,4	8 240	8 241,4
817	8 767	8 768,4	8 243	8 244,4
818	8 770	8 771,4	8 246	8 247,4
819	8 773	8 774,4	8 249	8 250,4
820	8 776	8 777,4	8 252	8 253,4
821	8 779*	8 780,4*	8 255*	8 256,4*
822	8 782	8 783,4	8 258	8 259,4
823	8 785	8 786,4	8 261	8 262,4
824	8 788	8 789,4	8 264	8 265,4
825	8 791	8 792,4	8 267	8 268,4
826	8 794	8 795,4	8 270	8 271,4
827	8 797	8 798,4	8 273	8 274,4
828	8 800	8 801,4	8 276	8 277,4
829	8 803	8 804,4	8 279	8 280,4
830	8 806	8 807,4	8 282	8 283,4
831	8 809	8 810,4	8 285	8 286,4
832[2]	8 812	8 813,4	8 288	8 289,4
833	8 291[7]	8 292,4	8 291[7]	8 292,4
834[2 3 6]	8 707	8 708,4	–	–
835[2 3 6]	8 710	8 711,4	–	–
836[2 3 6]	8 713	8 714,4	–	–
837[2 3 6]	8 716	8 717,4	–	–

Channel No.	12 MHz Band			
	Coast stations		Ship stations	
	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency
1201	13 077	13 078,4	12 230	12 231,4
1202	13 080	13 081,4	12 233	12 234,4
1203	13 083	13 084,4	12 236	12 237,4
1204	13 086	13 087,4	12 239	12 240,4
1205	13 089	13 090,4	12 242	12 243,4
1206	13 092	13 093,4	12 245	12 246,4
1207	13 095	13 096,4	12 248	12 249,4
1208	13 098	13 099,4	12 251	12 252,4
1209	13 101	13 102,4	12 254	12 255,4
1210	13 104	13 105,4	12 257	12 258,4
1211	13 107	13 108,4	12 260	12 261,4
1212	13 110	13 111,4	12 263	12 264,4
1213	13 113	13 114,4	12 266	12 267,4
1214	13 116	13 117,4	12 269	12 270,4
1215	13 119	13 120,4	12 272	12 273,4
1216	13 122	13 123,4	12 275	12 276,4
1217	13 125	13 126,4	12 278	12 279,4
1218	13 128	13 129,4	12 281	12 282,4
1219	13 131	13 132,4	12 284	12 285,4
1220	13 134	13 135,4	12 287	12 288,4
1221	13 137*	13 138,4*	12 290*[5]	12 291,4*
1222	13 140	13 141,4	12 293	12 294,4
1223	13 143	13 144,4	12 296	12 297,4
1224	13 146	13 147,4	12 299	12 300,4
1225	13 149	13 150,4	12 302	12 303,4
1226	13 152	13 153,4	12 305	12 306,4
1227	13 155	13 156,4	12 308	12 309,4
1228	13 158	13 159,4	12 311	12 312,4
1229	13 161	13 162,4	12 314	12 315,4
1230	13 164	13 165,4	12 317	12 318,4
1231	13 167	13 168,4	12 320	12 321,4
1232	13 170	13 171,4	12 323	12 324,4
1233	13 173	13 174,4	12 326	12 327,4
1234	13 176	13 177,4	12 329	12 330,4
1235	13 179	13 180,4	12 332	12 333,4
1236	13 182	13 183,4	12 335	12 336,4
1237 } 2	13 185	13 186,4	12 338	12 339,4
1238	13 188	13 189,4	12 341	12 342,4
1239	13 191	13 192,4	12 344	12 345,4
1240	13 194	13 195,4	12 347	12 348,4
1241	13 197	13 198,4	12 350	12 351,4

Channel No.	16 MHz Band			
	Coast stations		Ship stations	
	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency
1601	17 242	17 243,4	16 360	16 361,4
1602	17 245	17 246,4	16 363	16 364,4
1603	17 248	17 249,4	16 366	16 367,4
1604	17 251	17 252,4	16 369	16 370,4
1605	17 254	17 255,4	16 372	18 373,4
1606	17 527	17 258,4	16 375	16 376,4
1607	17 260	17 261,4	16 378	16 379,4
1608	17 263	17 264,4	16 381	16 382,4
1609	17 266	17 267,4	16 384	16 385,4
1610	17 269	17 270,4	16 387	16 388,4
1611	17 272	17 273,4	16 390	16 391,4
1612	17 275	17 276,4	16 393	16 394,4
1613	17 278	17 279,4	16 396	16 397,4
1614	17 281	17 282,4	16 399	16 400,4
1615	17 284	17 285,4	16 402	16 403,4
1616	17 287	17 288,4	16 405	16 406,4
1617	17 290	17 291,4	16 408	16 409,4
1618	17 293	17 294,4	16 411	16 412,4
1619	17 296	17 297,4	16 414	16 415,4
1620	17 299	17 300,4	16 417	16 418,4
1621	17 302*	17 303,4*	16 420*[5]	16 421,4*
1622	17 305	17 306,4	16 423	16 424,4
1623	17 308	17 309,4	16 426	16 427,4
1624	17 311	17 312,4	16 429	16 430,4
1625	17 314	17 315,4	16 432	16 433,4
1626	17 317	17 318,4	16 435	16 436,4
1627	17 320	17 321,4	16 438	16 439,4
1628	17 323	17 324,4	16 441	16 442,4
1629	17 326	17 327,4	16 444	16 445,4
1630	17 329	17 330,4	16 447	16 448,4
1631	17 332	17 333,4	16 450	16 451,4
1632	17 335	17 336,4	16 453	16 454,4
1633	17 338	17 339,4	16 456	16 457,4
1634	17 341	17 342,4	16 459	16 460,4
1635	17 344	17 345,4	16 462	16 463,4
1636	17 347	17 348,4	16 465	16 466,4
1637	17 350	17 351,4	16 468	16 469,4
1638	17 353	17 354,4	16 471	16 472,4
1639	17 356	17 357,4	16 474	16 475,4
1640	17 359	17 360,4	16 477	16 478,4
1641	17 362	17 363,4	16 480	16 481,4
1642	17 365	17 366,4	16 483	16 484,4
1643	17 368	17 369,4	16 486	16 487,4
1644	17 371	17 372,4	16 489	16 490,4
1645	17 374	17 375,4	16 492	16 493,4
1646	17 377	17 378,4	16 495	16 496,4
1647	17 380	17 381,4	16 498	16 499,4
1648	17 383	17 384,4	16 501	16 502,4
1649 } 2	17 386	17 387,4	16 504	16 505,4
1650	17 389	17 390,4	16 507	16 508,4
1651	17 392	17 393,4	16 510	16 511,4
1652	17 395	17 396,4	16 513	16 514,4
1653	17 398	17 399,4	16 516	16 517,4
1654	17 401	17 402,4	16 519	16 520,4
1655	17 404	17 405,4	16 522	16 523,4
1656	17 407	17 408,4	16 525	16 526,4

Channel No.	18/19 MHz Band			
	Coast stations		Ship stations	
	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency
1801	19 755	19 756,4	18 780	18 781,4
1802	19 758	19 759,4	18 783	18 784,4
1803 } 2	19 761	19 762,4	18 786	18 787,4
1804	19 764	19 765,4	18 789	18 790,4
1805	19 767	19 768,4	18 792	18 793,4
1806	19 770*	19 771,4*	18 795*	18 796,4*
1807	19 773	19 774,4	18 798	18 799,4
1808	19 776	19 777,4	18 801	18 802,4
1809	19 779	19 780,4	18 804	18 805,4
1810 } 2	19 782	19 783,4	18 807	18 808,4
1811	19 785	19 786,4	18 810	18 811,4
1812	19 788	19 789,4	18 813	18 814,4
1813	19 791	19 792,4	18 816	18 817,4
1814	19 794	19 795,4	18 819	18 820,4
1815	19 797	19 798,4	18 822	18 823,4

Channel No.	22 MHz Band			
	Coast stations		Ship stations	
	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency
2201	22 696	22 697,4	22 000	22 001,4
2202	22 699	22 700,4	22 003	22 004,4
2203	22 702	22 703,4	22 006	22 007,4
2204	22 705	22 706,4	22 009	22 010,4
2205	22 708	22 709,4	22 012	22 013,4
2206	22 711	22 712,4	22 015	22 016,4
2207	22 714	22 715,4	22 018	22 019,4
2208	22 717	22 718,4	22 021	22 022,4
2209	22 720	22 721,4	22 024	22 025,4
2210	22 723	22 724,4	22 027	22 028,4
2211	22 726	22 727,4	22 030	22 031,4
2212	22 729	22 730,4	22 033	22 034,4
2213	22 732	22 733,4	22 036	22 037,4
2214	22 735	22 736,4	22 039	22 040,4
2215	22 738	22 739,4	22 042	22 043,4
2216	22 741	22 742,4	22 045	22 046,4
2217	22 744	22 745,4	22 048	22 049,4
2218	22 747	22 748,4	22 051	22 052,4
2219	22 750	22 751,4	22 054	22 055,4
2220	22 753	22 754,4	22 057	22 058,4
2221	22 756*	22 757,4*	22 060*	22 061,4*
2222	22 759	22 760,4	22 063	22 064,4
2223	22 762	22 763,4	22 066	22 067,4
2224	22 765	22 766,4	22 069	22 070,4
2225	22 768	22 769,4	22 072	22 073,4
2226	22 771	22 772,4	22 075	22 076,4
2227	22 774	22 775,4	22 078	22 079,4
2228	22 777	22 778,4	22 081	22 082,4
2229	22 780	22 781,4	22 084	22 085,4
2230	22 783	22 784,4	22 087	22 088,4
2231	22 786	22 787,4	22 090	22 091,4
2232	22 789	22 790,4	22 093	22 094,4
2233	22 792	22 793,4	22 096	22 097,4
2234	22 795	22 796,4	22 099	22 100,4
2235	22 798	22 799,4	22 102	22 103,4
2236	22 801	22 802,4	22 105	22 106,4
2237	22 804	22 805,4	22 108	22 109,4
2238	22 807	22 808,4	22 111	22 112,4
2239	22 810	22 811,4	22 114	22 115,4
2240	22 813	22 814,4	22 117	22 118,4
2241	22 816	22 817,4	22 120	22 121,4
2242	22 819	22 820,4	22 123	22 124,4
2243	22 822	22 823,4	22 126	22 127,4
2244	22 825	22 826,4	22 129	22 130,4
2245	22 828	22 829,4	22 132	22 133,4
2246	22 831	22 832,4	22 135	22 136,4
2247 } 2	22 834	22 835,4	22 138	22 139,4
2248	22 837	22 838,4	22 141	22 142,4
2249	22 840	22 841,4	22 144	22 145,4
2250	22 843	22 844,4	22 147	22 148,4
2251	22 846	22 847,4	22 150	22 151,4
2252	22 849	22 850,4	22 153	22 154,4
2253	22 852	22 853,4	22 156	22 157,4

Channel No.	25/26 MHz Band			
	Coast stations		Ship stations	
	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency
2501	26 145	26 146,4	25 070	25 071,4
2502	26 148	26 149,4	25 073	25 074,4
2503	26 151	26 152,4	25 076	25 077,4
2504	26 154	26 155,4	25 079	25 080,4
2505 } 2	26 157	26 158,4	25 082	25 083,4
2506	26 160	26 161,4	25 085	25 086,4
2507	26 163	26 164,4	25 088	25 089,4
2508	26 166	26 167,4	25 091	25 092,4
2509	26 169	26 170,4	25 094	25 095,4
2510	26 172*	26 173,4*	25 097*	25 098,4*

Table 2A - MMS sub-bands [in kHz] as of 0001 UTC 01 JUL 1991 (see chapter 21)

Band MHz	Limits kHz	Frequencies assignable to ship stations for oceanographic data transmission	Limits kHz	Frequencies assignable to ship stations for telephony, duplex operation	Limits kHz	Frequencies assignable to ship and coast stations for telephony, simplex operation	Limits kHz	Frequencies assignable to ship stations for wide-band telegraphy, facsimile and special transmission systems	Limits kHz	Frequencies assignable to ship stations for oceanographic data transmission	Limits kHz	Frequencies (paired) assignable to ship stations for NBDP telegraphy and data transmission systems at speeds not exceeding 100 bauds for FSK and 200 bauds for PSK	Limits kHz	Calling frequencies assignable to ship stations for A1A or A1B Morse telegraphy	Limits kHz	Frequencies (paired) assignable to ship stations for NBDP telegraphy and data transmission systems at speeds not exceeding 100 bauds for FSK and 200 bauds for PSK	Limits kHz	Working frequencies assignable to ship stations for A1A or A1B Morse telegraphy	Limits kHz	Calling frequencies assignable to ship stations for A1A or A1B Morse telegraphy	Limits kHz
		c)		*a) i)*		*a)*				*c)*		*d) j) m)*		*g)*		*d) m)*		*e) f) h)*		*g)*	
4	4 063	**4 063.3 – 4 064.8** 6 f. 0.3 kHz	4 065	**4 066.4 – 4 144.4** 27 f. 3 kHz	4 146	**4 147.4 – 4 150.4** 2 f. 3 kHz	4 152	**4 154 – 4 170** 5 f. 4 kHz	4 172	✕	4 172	**4 172.5 – 4 181.5** 18 f. 0,5 kHz	4 181.75		4 186.75	✕	4 186.75	**4 187 – 4 202** 31 f. 0,5 kHz	4 202.25		4 202.25
6	6 200	✕	6 200	**6 201.4 – 6 222.4** 8 f. 3 kHz	6 224	**6 225.4 – 6 231.4** 3 f. 3 kHz	6 233	**6 235 – 6 259** 7 f. 4 kHz	6 261	**6 261.3 – 6 262.5** 5 f. 0.3 kHz	6 262.75	**6 263 – 6 275.5** 25 f. 0.5 kHz	6 275.75		6 280.75	**6 281 – 6 284.5** 8 f. 0.5 kHz	6 284.75	**6 285 – 6 300** 31 f. 0.5 kHz	6 300.25	✕	6 300.25
8	8 195	✕	8 195	**8 196.4 – 8 292.4** 33 f. 3 kHz	8 294	**8 295.4 – 8 298.4** 2 f. 3 kHz	8 300	**8 302 – 8 338** 10 f. 4 kHz	8 340	**8 340.3 – 8 341.5** 5 f. 0.3 kHz	8 341.75	✕	8 341.75	✕	8 341.75	✕	8 341.75	**8 342 – 8 365.5** 48 f. 0.5 kHz	8 365.75		8 370.75
12	12 230	✕	12 230	**12 231.4 – 12 351.4** 41 f. 3 kHz	12 353	**12 354.4 – 12 366.4** 5 f. 3 kHz	12 368	**12 370 – 12 418** 13 f. 4 kHz	12 420	**12 420.3 – 12 421.5** 5 f. 0.3 kHz	12 421.75	✕	12 421.75	✕	12 421.75	✕	12 421.75	**12 422 – 12 476.5** 110 f. 0.5 kHz	12 476.75	✕	12 476.75
16	16 360	✕	16 360	**16 361.4 – 16 526.4** 56 f. 3 kHz	16 528	**16 529.4 – 16 547.4** 7 f. 3 kHz	16 549	**16 551 – 16 615** 17 f. 4 kHz	16 617	**16 617.3 – 16 618.5** 5 f. 0.3 kHz	16 618.75	✕	16 618.75	✕	16 618.75	✕	16 618.75	**16 619 – 16 683** 129 f. 0.5 kHz	16 683.25	✕	16 683.25
18/19	18 780	✕	18 780	**18 781.4 – 18 823.4** 15 f. 3 kHz	18 825	**18 826.4 – 18 844.4** 7 f. 3 kHz	18 846	**18 848 – 18 868** 6 f. 4 kHz	18 870	✕	18 870	✕	18 870	✕	18 870	✕	18 870	✕	18 870	✕	18 870
22	22 000	✕	22 000	**22 001.4 – 22 157.4** 53 f. 3 kHz	22 159	**22 160.4 – 22 178.4** 7 f. 3 kHz	22 180	**22 182 – 22 238** 15 f. 4 kHz	22 240	**22 240.3 – 22 241.5** 5 f. 0.3 kHz	22 241.75	✕	22 241.75	✕	22 241.75	✕	22 241.75	**22 242 – 22 279** 75 f. 0.5 kHz	22 279.25		22 284.25
25/26	25 070	✕	25 070	**25 071.4 – 25 098.4** 10 f. 3 kHz	25 100	**25 101.4 – 25 119.4** 7 f. 3 kHz	25 121	**25 123 – 25 159** 10 f. 4 kHz	25 161.25	✕	25 161.25	✕	25 161.25	✕	25 161.25	✕	25 161.25	**25 161.5 – 25 171** 20 f. 0.5 kHz	25 171.25		25 172.75

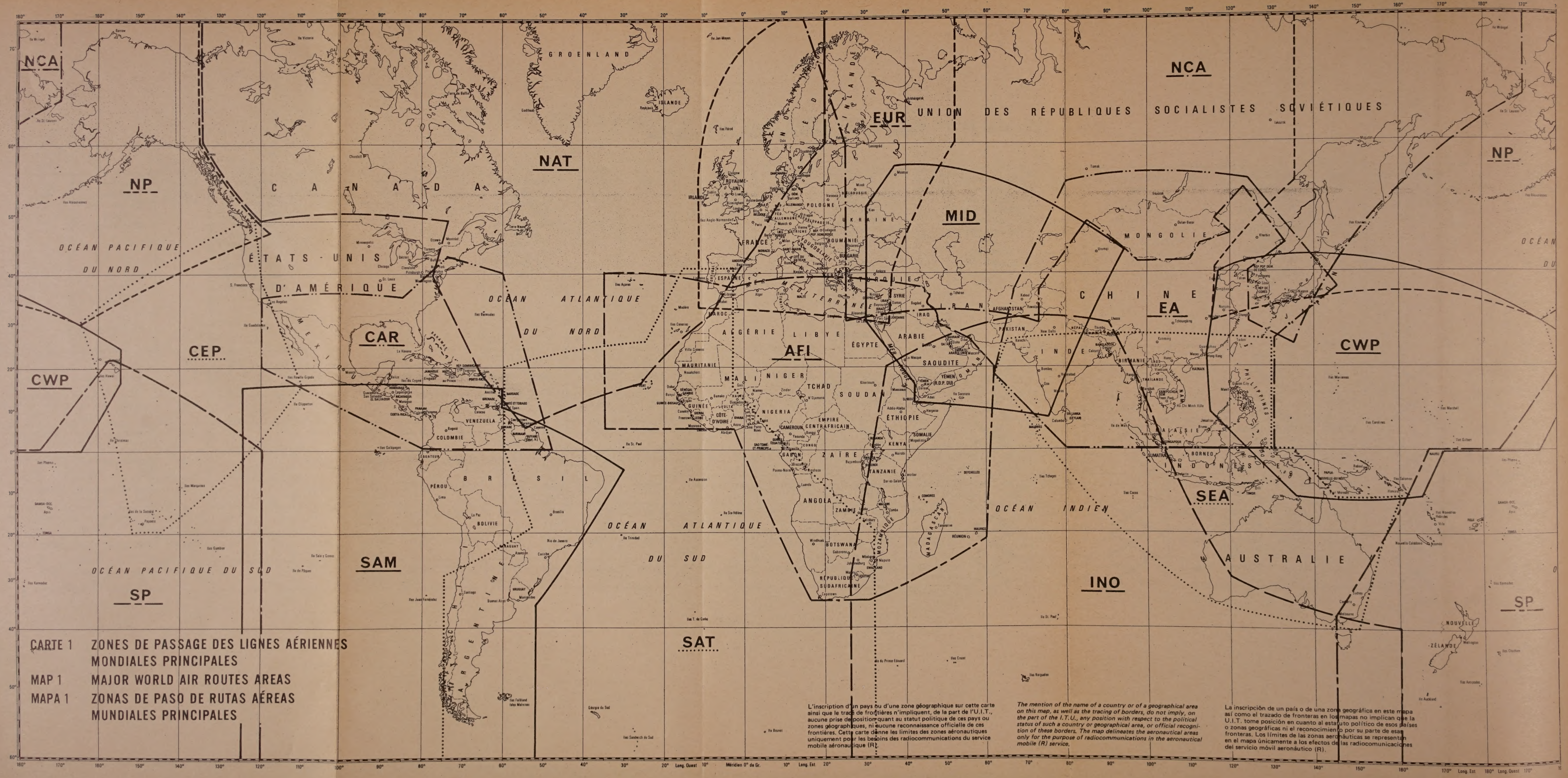
f. = fréquences/frequencies/frecuencias

(continued)

Table 2B - Continuation of Table 2A

Bands MHz	Limits kHz	Working frequencies assignable to ship stations for A1A or A1B Morse telegraphy	Limits kHz	Frequencies (paired) assignable to ship stations for NBDP telegraphy and data transmission systems at speeds not exceeding 100 bauds for FSK and 200 bauds for PSK	Limits kHz	Calling frequencies assignable to ship stations for A1A or A1B Morse telegraphy	Limits kHz	Frequencies (paired) assignable to ship stations for NBDP telegraphy and data transmission systems at speeds not exceeding 100 bauds for FSK and 200 bauds for PSK	Limits kHz	Frequencies (non-paired) assignable to ship stations for NBDP telegraphy and data transmission systems at speeds not exceeding 100 bauds for FSK and 200 bauds for PSK and for A1A or A1B Morse telegraphy (working)	Limits kHz	Frequencies assignable to ship stations for Digital Selective Calling	Limits kHz	Limits kHz	Frequencies (paired) assignable to coast stations for NBDP and data transmission systems, at speeds not exceeding 100 bauds for FSK and 200 bauds for PSK	Limits kHz	Frequencies assignable to coast stations for digital selective calling	Limits kHz	Frequencies assignable to coast stations for wide-band and A1A or A1B Morse telegraphy, facsimile, special and data transmission systems and direct-printing telegraphy systems	Limits kHz	Frequencies assignable to coast stations for telephony, duplex operation	Limits kHz
		e) *f)*		*d) j) m)*		*g)*		*d) m)*		*b)*		*k) l)*			*d) n) o)*		*l)*				*a)*	
4	4 202.25	X	4 202.25	X	4 202.25	X	4 202.25	X	4 202.25	**4 202.5 – 4 207** 10 f. 0.5kHz	4 207.25	**4 207.5 – 4 209** 4 f. 0.5 kHz	4 209.25	4 209.25	**4 209.5 – 4 219** 20 f. 0.5 kHz	4 219.25	**4 219.5 – 4 220.5** 3 f. 0.5 kHz	4 221		4 351	**4 352.4 – 4 436.4** 29 f. 3 kHz	4 438
6	6 300.25	X	6 300.25	X	6 300.25	X	6 300.25	X	6 300.25	**6 300.5 – 6 311.5** 23 f. 0.5 kHz	6 311.75	**6 312 – 6 313.5** 4 f. 0.5 kHz	6 313.75	6 313.75	**6 314 – 6 330.5** 34 f. 0.5 kHz	6 330.75	**6 331 – 6 332** 3 f. 0.5 kHz	6 332.5		6 501	**6 502.4 – 6 523.4** 8 f. 3 kHz	6 525
8	8 370.75	**8 371 – 8 376** 11 f. 0.5 kHz	8 376.25	**8 376.5 – 8 396** 40 f. 0.5 kHz	8 396.25	X	8 396.25	X	8 396.25	**8 396.5 – 8 414** 36 f. 0.5 kHz	8 414,25	**8 414.5 – 8 416** 4 f. 0.5 kHz	8 416.25	8 416.25	**8 416.5 – 8 436** 40 f. 0.5 kHz	8 436.25	**8 436.5 – 8 437.5** 3 f. 0.5 kHz	8 438		8 707	**8 708.4 – 8 813.4** 36 f. 3 kHz	8 815
12	12 476.75	X	12 476.75	**12 477 – 12 549.5** 146 f. 0.5 kHz	12 549.75		12 554.75	**12 555 – 12 559.5** 10 f. 0.5 kHz	12 559.75	**12 560 – 12 576.5** 34 f. 0.5 kHz	12 576.75	**12 577 – 12 578.5** 4 f. 0.5 kHz	12 578.75	12 578.75	**12 579 – 12 656.5** 156 f. 0.5 kHz	12 656.75	**12 657 – 12 658** 3 f. 0.5 kHz	12 658.5		13 077	**13 078.4 – 13 198.4** 41 f. 3 kHz	13 200
16	16 683.25	X	16 683.25	**16 683.5 – 16 733.5** 101 f. 0.5 kHz	16 733.75		16 738.75	**16 739 –16 784.5** 92 f. 0.5 kHz	16 784.75	**16 785 – 16 804** 39 f. 0.5 kHz	16 804.25	**16 804.5 – 16 806** 4 f. 0.5 kHz	16 806.25	16 806.25	**16 806.5 – 16 902.5** 193 f. 0.5 kHz	16 902.75	**16 903 – 16 904** 3 f. 0.5 kHz	16 904.5		17 242	**17 243.4 – 17 408.4** 56 f. 3 kHz	17 410
18/19	18 870	X	18 870	**18 870.5 – 18 892.5** 45 f. 0.5 kHz	18 892.75	X	18 892.75	X	18 892.75	**18 893 – 18 898** 11 f. 0.5 kHz	18 898.25	**18 898.5 – 18 899.5** 3 f. 0.5 kHz	18 899.75	19 680.25	**19 680.5 – 19 703** 46 f. 0.5 kHz	19 703.25	**19 703.5 – 19 704.5** 3 f. 0.5 kHz	19 705		19 755	**19 756.4 – 19 798.4** 15 f. 3 kHz	19 800
22	22 284.25	X	22 284.25	**22 284.5 – 22 351.5** 135 f. 0.5 kHz	22 351.75	X	22 351.75	X	22 351.75	**22 352 – 22 374** 45 f. 0.5 kHz	22 374.25	**22 374.5 – 22 375.5** 3 f. 0.5 kHz	22 375.75	22 375.75	**22 376 – 22 443.5** 136 f. 0.5 kHz	22 443.75	**22 444 – 22 445** 3 f. 0.5 kHz	22 445.5		22 696	**22 697.4 – 22 853.4** 53 f. 3 kHz	22 855
25/26	25 172.75	X	25 172.75	**25 173 – 25 192.5** 40 f. 0.5 kHz	25 192.75	X	25 192.75	X	25 192.75	**25 193 – 25 208** 31 f. 0.5 kHz	25 208.25	**25 208.5 – 25 209.5** 3 f. 0.5 kHz	25 210	26 100.25	**26 100.5 – 26 120.5** 41 f. 0.5 kHz	26 120.75	**26 121 – 26 122** 3 f. 0.5 kHz	26 122.5		26 145	**26 146.4 – 26 173.4** 10 f. 3 kHz	26 175

f. = fréquences/frequencies/frecuencias


NCA
NP
CEP
CWP
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NAT
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SAM
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EUR
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AFI
INO
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CWP
NCA
NP
SP
C A N A D A
ÉTATS-UNIS D'AMÉRIQUE
GROENLAND
OCÉAN PACIFIQUE DU NORD
OCÉAN PACIFIQUE DU SUD
OCÉAN ATLANTIQUE DU NORD
OCÉAN ATLANTIQUE DU SUD
OCÉAN INDIEN
UNION DES RÉPUBLIQUES SOCIALISTES SOVIÉTIQUES
MONGOLIE
CHINE
INDE
AUSTRALIE
INDONÉSIE
BRÉSIL
ARGENTINE
COLOMBIE
VENEZUELA
PÉROU
BOLIVIE
MEXIQUE
ALGÉRIE
LIBYE
ÉGYPTE
SOUDAN
TCHAD
NIGER
MALI
MAURITANIE
NIGERIA
ÉTHIOPIE
ZAÏRE
ANGOLA
TANZANIE
ARABIE SAOUDITE
IRAN
AFGHANISTAN
PAKISTAN
BIRMANIE
BORNEO
NOUVELLE-ZÉLANDE
MADAGASCAR
Long. Ouest
Méridien 0° de Gr.
Long. Est

CARTE 1 ZONES DE PASSAGE DES LIGNES AÉRIENNES MONDIALES PRINCIPALES

MAP 1 MAJOR WORLD AIR ROUTES AREAS

MAPA 1 ZONAS DE PASO DE RUTAS AÉREAS MUNDIALES PRINCIPALES

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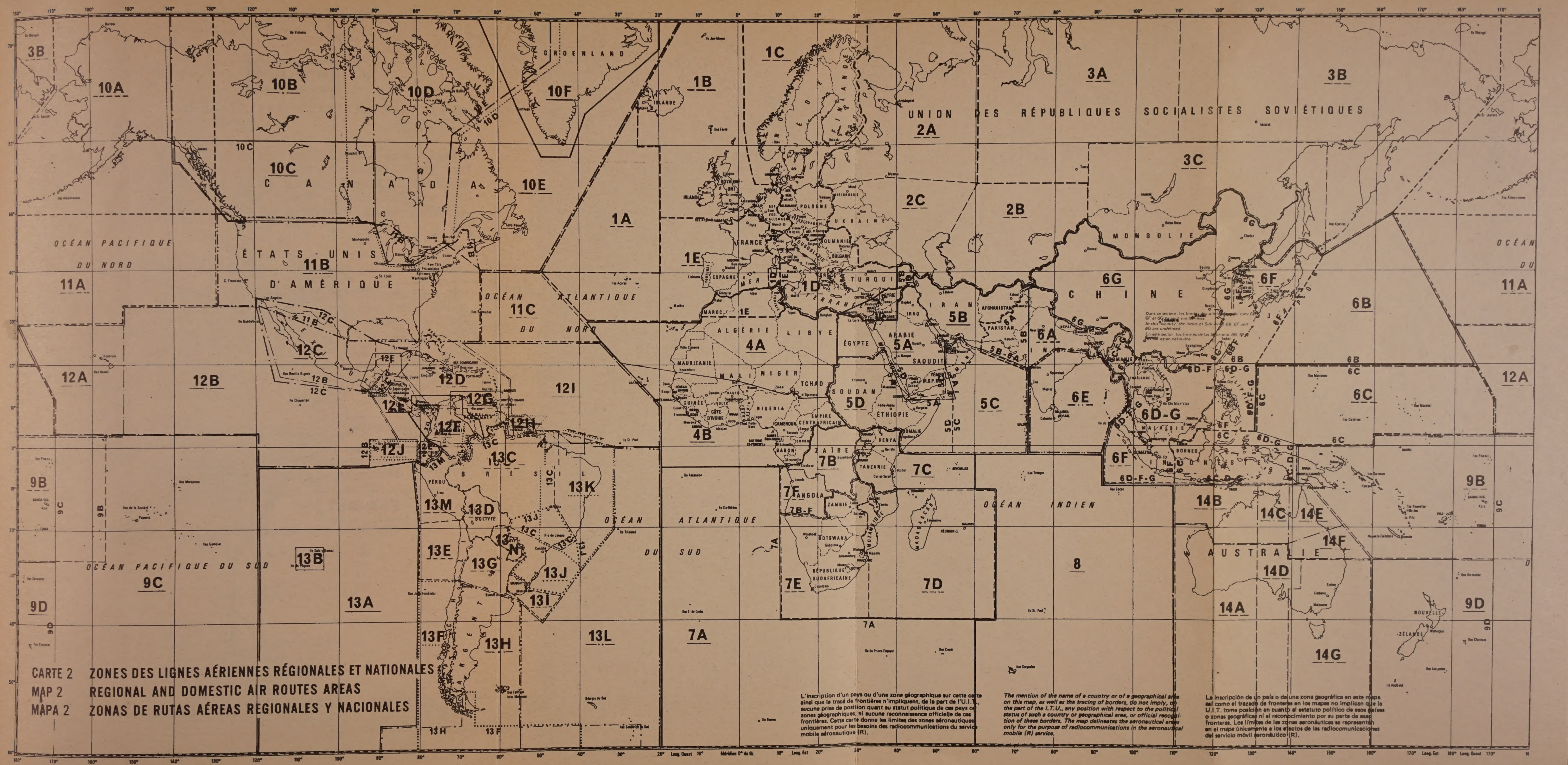
3B
10A
10B
10D
10F
GROENLAND
1B
1C
3A
3B
UNION DES RÉPUBLIQUES SOCIALISTES SOVIÉTIQUES
2A
ISLANDE
10C
10C
CANADA
10E
3C
2C
2B
1A
OCÉAN PACIFIQUE DU NORD
ÉTATS-UNIS D'AMÉRIQUE
11B
1E
FRANCE
POLOGNE
UKRAINE
ROUMANIE
BULGARIE
TURQUIE
MONGOLIE
OCÉAN
11A
11A
OCÉAN ATLANTIQUE DU NORD
11C
1E
1D
ESPAGNE
MAROC
ALGÉRIE
LIBYE
ÉGYPTE
IRAN
5B
AFGHANISTAN
PAKISTAN
6G
CHINE
6F
6B
12C
11B
12C
4A
ARABIE SAOUDITE
5A
6A
12A
12B
12D
12I
MAURITANIE
MALI
NIGER
TCHAD
SOUDAN
5D
5C
6E
6D-G
6B
6C
6C
12A
12E
12G
12F
12H
4B
NIGERIA
CAMEROUN
EMPIRE CENTRAFRICAIN
ÉTHIOPIE
SOMALIE
KENYA
ZAÏRE
TANZANIE
6D-F
6D-G
6F
6D-F-G
BORNEO
12B
12J
13C
13K
BRÉSIL
PÉROU
7B
7C
9B
9B
9C
9B
13M
13D
BOLIVIE
7F
ANGOLA
ZAMBIE
7B-F
14B
14C
14E
14F
OCÉAN ATLANTIQUE DU SUD
OCÉAN INDIEN
BOTSWANA
MADAGASCAR
RÉPUBLIQUE SUDAFRICAINE
7A
8
AUSTRALIE
9C
13B
13E
13G
13N
13J
13I
OCÉAN PACIFIQUE DU SUD
9C
7E
7D
14D
9D
13A
9D
14A
9D
13F
13H
13L
7A
7A
NOUVELLE-ZÉLANDE
9D
14G
13H
13F

CARTE 2 ZONES DES LIGNES AÉRIENNES RÉGIONALES ET NATIONALES
MAP 2 REGIONAL AND DOMESTIC AIR ROUTES AREAS
MAPA 2 ZONAS DE RUTAS AÉREAS REGIONALES Y NACIONALES

Dans ce secteur, les limites des sous-zones 6B, 6F et 6G ne sont pas définies.
In this vicinity, the limits of Sub-Areas 6B, 6F and 6G are undefined.
En este sector, los límites de las subzonas 6B, 6F y 6G no están definidos.

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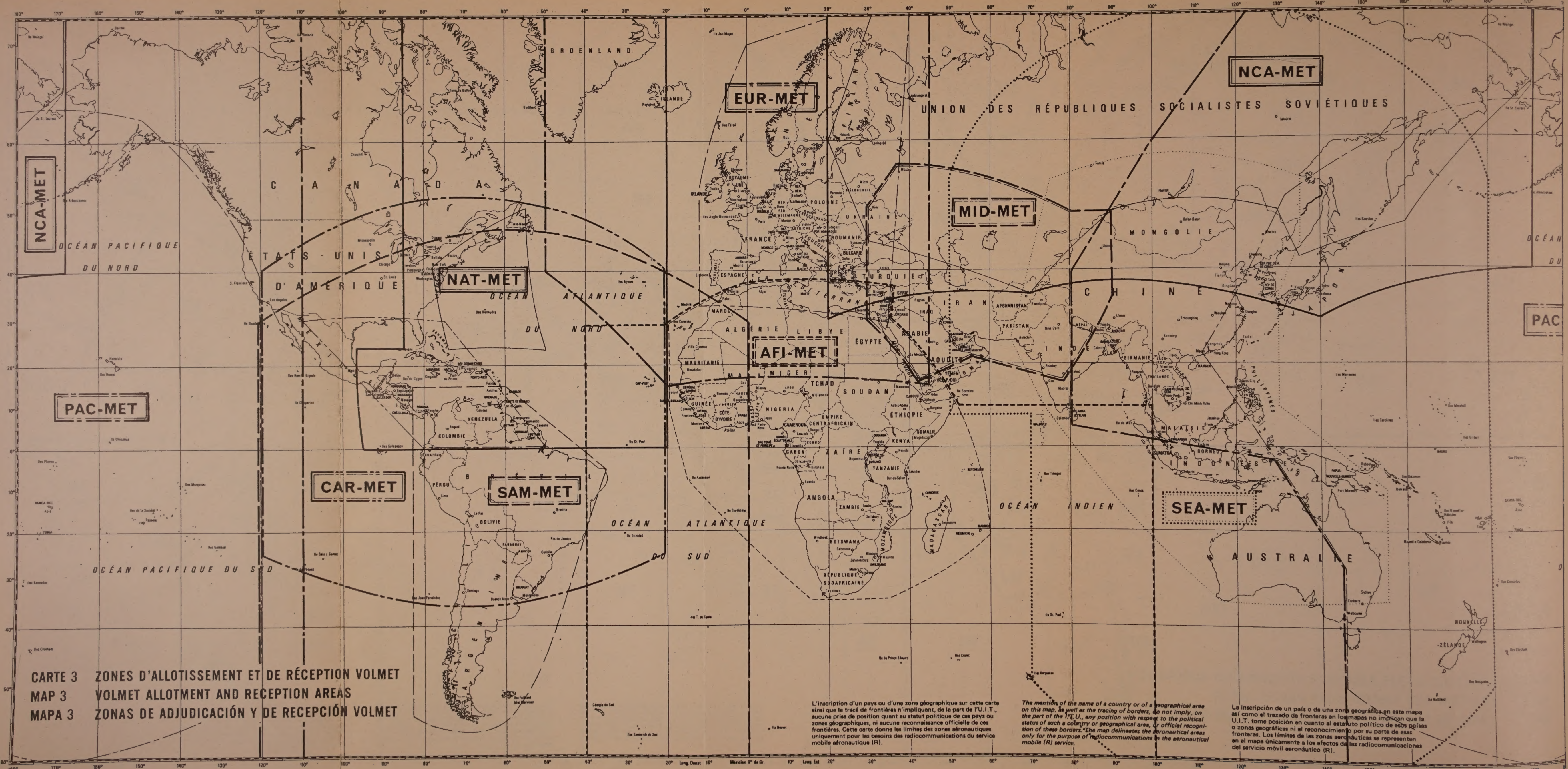
NCA-MET
EUR-MET
MID-MET
NAT-MET
AFI-MET
PAC-MET
CAR-MET
SAM-MET
SEA-MET
PAC
UNION DES RÉPUBLIQUES SOCIALISTES SOVIÉTIQUES
CANADA
ÉTATS-UNIS D'AMÉRIQUE
GROENLAND
OCÉAN PACIFIQUE DU NORD
OCÉAN ATLANTIQUE DU NORD
OCÉAN ATLANTIQUE DU SUD
OCÉAN PACIFIQUE DU SUD
OCÉAN INDIEN
MONGOLIE
CHINE
JAPON
INDE
IRAN
AUSTRALIE
INDONÉSIE
BRÉSIL
ARGENTINE
MEXIQUE
Méridien 0° de Gr.
Long. Ouest
Long. Est

CARTE 3 ZONES D'ALLOTISSEMENT ET DE RÉCEPTION VOLMET
MAP 3 VOLMET ALLOTMENT AND RECEPTION AREAS
MAPA 3 ZONAS DE ADJUDICACIÓN Y DE RECEPCIÓN VOLMET

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